TD-W305TN/-W304BK A/B/C/E/G/J/U
TD-W205TN/-W204BK A/B/C/E/G/J/U
TD-W77BK C/J/U/TD-W75BK C/J

JVC

SERVICE MANUAL

STEREO DOUBLE CASSETTE DECK

TD-W305TN
TD-W304BK
TD-W205TN
TD-W204BK — **A/B/C/E/G/J/U**

TD-W77BK — **C/J/U**

TD-W75BK — **C/J**

Area Suffix	
A	Australia
B	U.K.
C	Canada
E	Continental Europe
G	Germany
J	U.S.A.
U	Other Areas

■ **This manual describes about four models with versions of TD-W305TN/TD-W304BK, TD-W205TN/TD-W204BK, TD-W77BK and TD-W75 together, however, the contents are slightly different in areas as noted in the following.**

- C, J areas: For TD-W305TN/TD-W304, TD-W205TN/TD-W204BK, TD-W77BK and TD-W75BK
- U area : For TD-W305TN/TD-W304, TD-W205TN/TD-W204BK, TD-W77BK
- A, B, E, G areas: TD-W305TN/TD-W304BK, TD-W205TN/TD-W204BK

- **Main difference in models and versions are:**
  - TD-W305TN and TD-W304BK: Reverse double-deck type, but different in exterior coloring
  - TD-W205TN and TD-W204BK: 1-way double-deck type, but different in exterior coloring
  - TD-W77BK : Black color. Electric circuits of TD-W305TN/TD-W304BK are partially omitted.
  - TD-W75BK : Black color. Electric circuits of TD-W205TN/TD-W204BK are partially omitted.

- **Manual numbers :** **No. 4325** for common IBs and specifications of these models
  No. 4325-1 for TD-W305TN/TD-W304BK
  No. 4325-2 for TD-W205TN/TD-W204BK
  No. 4325-3 for TD-W77BK
  No. 4325-4 for TD-W75BK

TD-W305TN/-W304BK A/B/C/E/G/J/U
TD-W205TN/-W204BK A/B/C/E/G/J/U
TD-W77BK C/J/U/TD-W75BK C/J

JVC

SERVICE MANUAL

STEREO DOUBLE CASSETTE DECK

TD-W305TN
TD-W304BK A/B/C/E/G/J/U
TD-W205TN
TD-W204BK

TD-W77BK C/J/U

TD-W75BK C/J

- For external appearance, see pages 12 and 13.
- This contains common things for the above models and versions.

Contents

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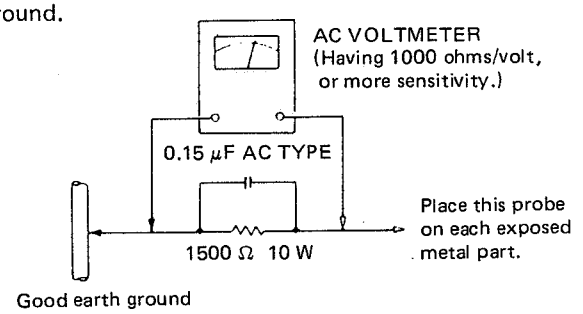
1 Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by (⚠) on the Schematic Diagram and Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

5. Leakage current check (Electrical shock hazard testing) (USA only)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna termianls, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).

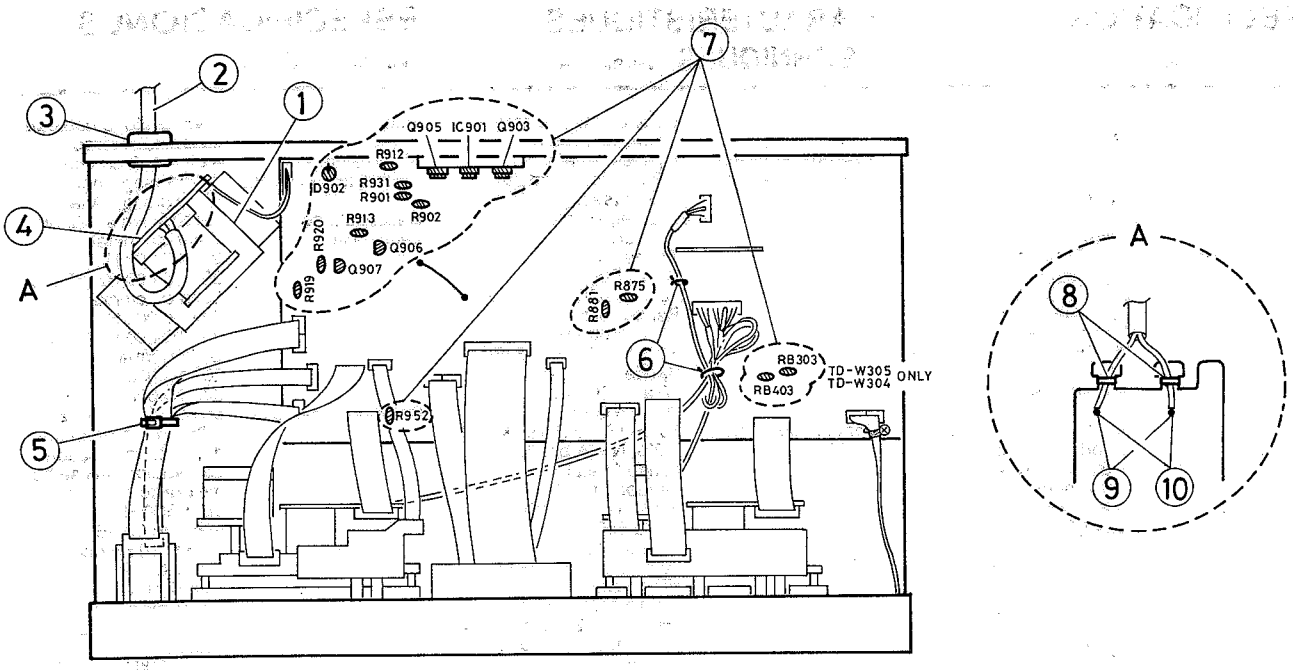

AC VOLTMETER
(Having 1000 ohms/volt, or more sensitivity.)
0.15 μF AC TYPE
1500 Ω 10 W
Place this probe on each exposed metal part.
Good earth ground

Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

■ Important Management Points Regarding Safety

(Items Demanding Special Safety Precautions)



① The power transformer must be checked by the following markings as well as managed in the fastening torque of the screws. Also confirm parts number according to the parts list.

J : 5216507 (UL approved No.)

C : VTP52A5-011F (Marking)

② Power cord : Make sure of the following markings and inspect exterior scratch and damage.

	Power cord	Attachment plug
J	SPT-1	KP-10 or SU-1
C	SPT-1	KP-10 or SU-1
E	VDE	KP-419C
B	BASEC BS6500	—

③ Tags to bind power cords must be soldered after being twisted in order to prevent them from coming off.

④ The end of respective power cords is soldered in the air and the space from others must be 3.2 mm or more in the distance.

⑤ The strain relief which is specified as "NIFCO 2271" securely fixes the power cord.

⑥ The primary terminals and secondary terminals next to them of the P.C. board must not be stuck out by the round end to keep space in each side.

⑧ Since the following parts are heat generating ones, they must not contact with electrolytic capacitors, wires, etc.

- Parts in parentheses ( ) are inflammables. Make sure of their lift-up condition for this purpose.
- Parts in box ☐ are out of JVC control.

(R952), (R919), (R920), (R913), (R902), (R901), (R931), (R912), (R881), (R875), (RB403, RB303)

▲ : only in TD-W205 and TD-W204

D902, R902, Q903, IC901, Q905, R913, Q906, Q907, R931, Heat sink

R952 : Must not touch any wire.

⑪ Wires and so forth must be securely clamped or fixed as illustrated on the left (at five points) to keep them from power active parts, mobile parts, heating units and sharp-edged parts.

★ : TD-W75 has no need of this clamp.

2 Features

1. **Double auto-reverse mechanism for recording/playback in deck B and playback in deck A**
2. **Full-logic control mechanism in both decks**
   - High-speed dubbing function reduces tape editing time by half.
3. **Dolby* HX PRO headroom extension**
4. **Dolby* B & C noise reduction system**
   - Built-in MPX filter
5. **DDRP (Dynamics Detection Recording Processor) compatibility**

   The DDRP function is possible only when used with a suitable JVC CD player.
6. **Auto tape select mechanism (decks A and B)**
7. **2-color peak level indicator**
8. **Synchro start (normal-/high-speed) dubbing**
9. **Continuous playback**
10. **INPUT LEVEL control**
11. **Digital tape counter**
12. **Metal tape compatibility**
13. **PHONES jack**
14. **COMPU LINK-1/SYNCHRO terminal**

* Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Corporation. HX Pro originated by Bang & Olufsen.
"Dolby", the double-D symbol ⧈ and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

3 Instruction Book (Extraction)

SPECIFICATIONS

(A/C/J/U-Version)

Type	: Stereo double cassette deck
Track system	: 4-track, 2-channel
Tape speed	: 4.8cm (1-7/8 inch/sec) (Normal) : 9.5cm (3-3/4 inch/sec) (High)
Frequency response	: (-20 dB recording) Metal tape; 20 - 17,000 Hz 30 - 16,000 Hz (± 3 dB) Chrome tape; 20 - 16,000 Hz 30 - 15,000 Hz (± 3 dB) Normal tape; 20 - 16,000 Hz 30 - 15,000 Hz (± 3 dB)
S/N ratio	: 58 dB (S = 315 Hz, k3 = 3% N = A-weighted, metal tape) The S/N is improved by about 15 dB at 500 Hz and by max. 20 dB at 1 kHz ~ 10 kHz with Dolby C NR on and improved by 5 dB at 1 kHz and by 10 dB at above 5 kHz with DOLBY B NR on.
Improvement of MOL	: 4 dB at 10 kHz with Dolby C NR on.
Wow and flutter	: 0.08% (WRMS)
Channel separation	: 40 dB (1kHz)
Crosstalk	: 60 dB (1 kHz)
Harmonic distortion	: k3; 0.8% (metal tape, 315Hz 0 VU)
Heads	: Deck A; METAPERM head for playback × 1 Deck B; METAPERM head for recording/ playback, 2-gap ferrite head for erasure; Combination head × 1
Motors	: Electric governed DC motor for capstan × 1, DC motor for reel × 1, DC motor for mechanism × 1 (For both decks A and B)
Fast forward/Rewind time	: Approx. 110 sec. with C-60 cassette
Input terminals	
LINE IN (× 1 circuit)	: Input sensitivity; 80 mV (0 VU) Input impedance; 50 kΩ
Output terminals	
LINE OUT (× 1 circuit)	: Output level; 300 mV (0 VU) Output impedance; 5 kΩ
PHONES × 1	: Output level; 0.3 mW/ 8 Ω (0 VU) Matching impedance; 8 Ω - 1 kΩ
Other terminals	: COMPU LINK-1/ SYNCHRO × 2
Power requirement	
A version	: AC 240 V, 50/60 Hz
C/J version	: AC 120V, 60 Hz
U version	: AC 230/127/110 V, 50/60 Hz
Power consumption	: With power switch on 17 W With power switch standby 1.6 W
Dimensions (W × H × D)	: 435 × 133 × 328 mm (17-3/16 × 5-1/4 × 12-15/16")
Weight	: 4.8 kg (10.6 lbs.)
Accessories	: Pin plug cord .....2 Remote cable 1

Design and specifications are subject to change without notice.

CARACTERISTIQUES TECHNIQUES (Version A/C/J/U)

Type	: Double-platine d'enregistrement stéréo
Système de pistes	: 4 pistes, 2 canaux
Vitesse de défilement	: 4,8cm/sec. (normale) 9,5 cm/sec.(grande)
Réponse en fréquence	: (Enregistrement à -20 dB) Bande métal; 20 à 17.000 Hz 30 à 16.000 Hz (±3 dB) Bande chrome; 20 à 16.000 Hz 30 à 15.000 Hz (±3 dB) Bande normale; 20 à 16.000 Hz 30 à 15.000Hz (± 3 dB)
Rapport signal/bruit	: 58 dB (S = 315 Hz, k3 = 3%, N = A-pondéré, bande "métal") Le rapport S/B est amélorié de 15 dB environ à 500 Hz et de 20 dB maximum à 1 kHz ~ 20 kHz avec le Dolby C NR en circuit, et amélioré de 5 dB à 1 kHz et 10 dB environ à 5 kHz avec le Dolby B NR en circuit.
Amélioration du niveau de sortie max.	: 4 dB à 10 kHz avec le Dolby C NR en circuit.
Pleurage et scintillement	: 0,08 % (WRMS)
Séparation du canal	: 40 dB (1 kHz)
Diaphonie	: 60 dB (1 kHz)
Distorsion harmonique	: k3; 0,8% (bande métal, 315 Hz 0 VU)
Têtes	: Platine A; tête METAPERM pour lecture × 1 Platine B; tête METAPERM pour enregistrement/lecture, Tête de ferrite à double-entrefer pour l'effacement; Tête combinée × 1
Moteurs	: Moteur CC à asservissement électronique pour le cabestan × 1 Moteur CC pour bobine × 1, Moteur CC pour méchanique × 1 (pour les deux platines A et B)
Temps d'avance rapide/réembobinage	: Environ 110 secondes avec une cassette C-60
Bornes d'entrée	
LINE IN (× 1 circuit)	: Sensibilité d'entrée; 80 mV (0 VU) Impédance d'entrée; 50 kΩ
Bornes de sortie	
LINE OUT (× 1 circuit)	: Niveau de sortie; 300 mV (0 VU) Impédance de sortie; 5 kΩ
PHONES × 1	: Niveau de sortie; 0,3 mW/8 Ω (0 VU) Impédance caractéristique; 8 Ω - 1 kΩ

ESPECIFICACIONES

(Version A/C/J/U)

Tipo	: Magnetófono doble de cassette estéreo
Sistema de pista	: 4 pistas, 2 canales
Velocidad de la cinta	: 4,8 cm/seg. (normal) 9,5 cm/seg. (Alta)
Respuesta de frecuencia	: (Grabación a –20 dB) Cinta de metal; : 20 - 17.000 Hz 30 - 16.000 Hz (±3 dB) Cinta de cromo; : 20 - 16.000 Hz 30 - 15.000 Hz (±3 dB) Cinta normal; : 20 - 16.000 Hz 30 - 15.000 Hz (±3 dB)
Relación señal-ruido	: 58 dB (S = 315 Hz, k3 = 3% N = A ponderado, cinta metalizada) La relación S-R se ha mejorado en aprox. 15 dB a 500 Hz, por un máx. de 20 dB a 1 kHz~10 kHz con Dolby C NR activado y en 5 dB a 1 kHz y en 10 dB a más de 5 kHz con Dolby B NR activado.
Mejora del nivel de salida máxima	: 4 dB 10 kHz con Dolby C NR activado
Fluctuación y tremolación	: 0,08 % (WRMS)
Separación de canal	: 40 dB (1 kHz)
Diafonía	: 60 dB (1 kHz)
Distorsión armónica	: k3; 0,8% (cinta de metal, 315 Hz 0 VU)
Cabezas	: Magnetófono A; Cabeza METAPERM para reproducción × 1, Magnetófono B; Cabeza METAPERM para grabación/reproducción, Cabeza de ferrite de 2 entrehierros para borrado; Cabeza para combinación × 1
Motores	: Motor electrónico de CC para el eje de arrastre × 1 Motor de CC para el carrete × 1 Motor de CC para de mechanismo × 1 (para ambos magnetófonos A y B)
Tiempo de avance répido/rebobinado	: Aprox. 110 segundos con cassette C-60
Terminales de entrada	
LINE IN (× 1 circuito)	: Sensibilidad de entrada; 80 mV Impedancia de entrada; 50 kΩ
Terminales de entrada	
LINE OUT (× 1 circuito)	: Nivel de salida; 300 mV (0 VU) Impedancia de salida; 5 kΩ
PHONES × 1	: Nivel de salida; 0,3 mW/8 Ω (0 VU) Impedancia de salida; 8 Ω - 1 kΩ

TECHNISCHE DATEN

(G-version)

Typ	: Stereo-Doppel-Cassettendeck
Spursystem	: 4-Spur, 2-Kanal
Bandgeschwindigkeit	: 4,8 cm/Sek. (Normal) 9,5 cm/Sek.(High)
Frequenzgang	: (–20 dB-Aufnahme) Metallband; 20 - 17.0000 Hz (DIN) 30 - 16.000 Hz (±3 dB) Chromband; 20 - 16.000 Hz (DIN) 30 - 15.000 Hz (±3 dB) Normalband; 20 - 16.000 Hz (DIN) 30 - 15.000 Hz (±3 dB)
Signal-Rauschabstand	: 58 dB (S = 315 Hz, k3 = 3% N = A-gewichtige, Metallband) Der Signal-Rauschabstand ist um 15 dB bei 500 Hz und um max. 20 dB bei 1 kHz ~ 10 kHz mit eingeschaltetem DOLBY C NR verbessert und um 5 dB bei 1 kHz und um 10 dB über 5 kHz mit eingeschaltetem DOLBY B NR.
Verbesserung des Höchstausgangspegels	: 4 dB bei 10 kHz mit eingeschaltetem DOLBY C NR.
Gleichlaufschwankungen	: ±0,2 % (DIN)
Kanaltrennung	: 40 dB (1 kHz)
Übersprechdämpfung	: 60 dB (1 kHz)
Klirrfaktor	: K3; 0,8% (Metallband, 315 Hz 0 VU)
Köpfe	: Deck A; METAPERM-Kopf für Wiedergabe × 1, Deck B; META-PERM-Kopf für Aufnahme/Wiedergabe, 2-Spalt Ferritkopf für Löschen; Kombinationskopf × 1
Motoren	: Elektronisch gesteuerter Gleichstrom-Motor für Kapstan × 1 Spulen-Gleichstrommotor × 1, Gleichstrommotor für Lautwerk × 1 (für beide Decks A und B)
Schnellvorlaufzeit/ Rückspulzeit	: Ca. 110 Sekunden (C-60 Cassette)
Eingänge	
LINE IN: (×1 Schaltung)	Eingangsempfindlichkeit; 80 mV (0 VU) Eingangsimpedanz; 50 kΩ
Ausgänge	
LINE OUT (× 1 Schaltung)	: Ausgangspegel; 300 mV (0 VU) Ausgangsimpedanz; 5 kΩ
PHONES × 1	: Ausgangspegel; 0,3 mW/8 Ω (0 VU) Passende Impedanz; 8 Ω - 1 kΩ

CARACTERISTIQUES TECHNIQUES (Version E)

Type	: Double-platine d'enregistrement stéréo
Système de pistes	: 4 pistes, 2 canaux
Vitesse de défilement	: 4,8cm/sec. (normale) 9,5 cm/sec.(grande)
Réponse en fréquence	: (Enregistrement à -20 dB) Bande métal; 20 à 17.000 Hz (DIN) 30 à 16.000 Hz (±3 dB) Bande chrome; 20 à 16.000 Hz (DIN) 30 à 15.000 Hz (±3 dB) Bande normale; 20 à 16.000 Hz (DIN) 30 à 15.000Hz (± 3 dB)
Rapport signal/bruit	: 58 dB (S = 315 Hz, k3 = 3%, N = A-pondéré, bande "métal") Le rapport S/B est amélioré de 15 dB environ à 500 Hz et de 20 dB maximum à 1 kHz ~ 10 kHz avec le Dolby C NR en circuit, et amélioré de 5 dB à 1 kHz et 10 dB environ à 5 kHz avec le Dolby B NR en circuit.
Amélioration du niveau de sortie max.	: 4 dB à 10 kHz avec le Dolby C NR en circuit.
Pleurage et scintillement	: ±0,2 % (DIN)
Séparation du canal	: 40 dB (1 kHz)
Diaphonie	: 60 dB (1 kHz)
Distorsion harmonique	: k3; 0,8% (bande métal, 315 Hz 0 VU)
Têtes	: Platine A; tête META-PERM pour lecture × 1 Platine B; tête META-PERM pour enregistrement/lecture, Tête de ferrite à double-entrefer pour l'effacement; Tête combinée × 1
Moteurs	: Moteur CC à asservissement electronique pour le cabestan × 1 Moteur CC pour bobine × 1 Moteur CC pour mécanique × 1 (pour les deux platines A et B)
Temps d'avance rapide/réembobinage	: Environ 110 secondes avec une cassette C-60
Bornes d'entrée	
LINE IN (× 1 circuit)	: Sensibilité d'entrée; 80 mV (0 VU) Impédance d'entrée; 50 kΩ
Bornes de sortie	
LINE OUT (× 1 circuit)	: Niveau de sortie; 300 mV (0 VU) Impédance de sortie; 5 kΩ
PHONES × 1	: Niveau de sortie; 0,3 mW/8 Ω (0 VU) Impédance caractéristique; 8 Ω - 1 kΩ

SPECIFIKATIES

(Versie E)

Type	: Stereo dubbel cassettedeck
Systeem	: 4-sporen, 2 kanalen
Bandsnelheid	: 4,8 cm/sek. (Normaal) 9,5 cm/sek. (Hoog)
Frekwentiebereik	: (-20 dB opname) Metaalband; 20 - 17.000 Hz (DIN) 30 - 16.000 Hz (±3 dB) Chroomband; 20 - 16.000 Hz (DIN) 30 - 15.000 Hz (±3 dB) Normaalband; 20 - 16.000 Hz (DIN) 30 - 15.000 Hz (±3 dB)
Signaal/ruisverhouding	: 58 dB (S = 315 Hz, k3 = 3% N = A-gemeten, metaalband) De signaal/ruisverhouding wordt met ca. 15 dB bij 500 Hz verbeterd. Bij 1 kHz~10 kHz met de DOLBY C NR op "ON" wordt de signaal ruisverhouding met max. 20 dB verbeterd. De signaal /ruisverhouding wordt met 5 dB bij 1 kHz verbeterd en met 10 dB bij meer dan 5 kHz, als de Dolby B NR schakelaar tegelijkertijd op "ON" staat.
Maximaal uitgangsniveau	: 4 dB bij 10 kHz met Dolby C NR op "ON"
Wow en flutter	: ±0,2%
Snelheidsfluktuaties	: 40 dB (1 kHz)
Overspraak	: 60 dB (1 kHz)
Harmonische vervorming	: k3; 0,8 % (metaalband, 315 Hz 0 VU)
Koppen	: Deck A; METAPERM-kop voor weergave × 1, Deck B; META-PERM-kop voor opname/weergave, ferriet wiskop met dubbele spleet; Kombinatiekop × 1
Motoren	: Elektronisch gestuurde gelijkstroommotor voor de aandrijving van de capstan × 1 Gelijk stroommotor voor spel × 1 Gelijk stroommotor voor mechanisme × 1 (voor deck A en deck B)
Snelspoeltijd	: Ca. 110 sek. met een C-60 cassette;
Ingangen	
LINE IN (× 1 circuit)	: Invoergevoeligheid; 80 mV (0 VU) Ingangsimpedantie; 50 kΩ
Uitgangen	
LINE OUT (× 1 circuit)	: Uitgangsniveau; 300 mV (0 VU) Uitgangsimpedantie; 5 kΩ
PHONES ×1	: Uitgangsniveau; 0,3 mW/8 Ω (0 VU) Geschikte impedantie; 8 Ω - 1 kΩ

Autres prises	: COMPU LINK-1 /SYNCHRO × 2
Alimentation	
Version A	: 240 V CA, 50/60Hz
Version C/J	: 120 V CA, 60 Hz
Version U	: 230/127/110 V CA, 50/60 Hz
Consommation	: 17 W avec alimentation en circuit 1,6 W avec alimentation hors circuit
Dimensions (L × H × P)	: 435 × 133 × 328 mm
Poids:	4,8 kg
Accessoires:	Fil à broches .....2 Fil de télécommande....1

Présentation et caractéristiques modifiables sans préavis

Otros terminales	: COMPU LINK-1 /SYNCHRO × 2
Alimentación	
Versión A	: CA 240 V, 50/60 Hz
Versión C/J	: CA 120 V, 60 Hz
Versión U	: CA 230 /127/110 V, 50/60 Hz
Consumo	: 17 W encendido 1,6 W apagado
Dimensiones (An × Al × F)	: 435 ×133 × 328 mm
Peso	: 4,8 kg
Accesorios	: Cordones con clavijas .....2 Cable de mando a distancia 1

El diseño y las especificaciones están sujetos a cambio sin aviso.

TEKNISKA DATA

(Version E)

Typ	: Dubbelt strereokassettdäck
Spårsystem	: 4 spår, 2 kanaler
Banhastighet	: 4,8 cm/sek (normal hastighet) 9,5 cm/sek (hög hastighet)
Frekvensomfång	: (–20 dB inspelning) Metallband; 20 – 17.000 Hz (DIN) 30 – 16.000 Hz (± 3 dB) Kromband; 20 – 16.000 Hz (DIN) 30 – 15.000 Hz (± 3 dB) Normalband; 20 – 16.000 Hz (DIN) 30 – 15.000 Hz (± 3 dB)
Störavstånd	: 58 dB (S = 315 Hz, k3 = 3% N = A-vägt, metallband) Störavståndet förbättras med omkring 15 dB vid 500 Hz och med max. 20 dB vid 1 kHz – 10 kHz med Dolby C. Det för bättras med 5 dB vid 1 kHz och med 10 dB vid över 5 kHz med Dolby B.
Förbättring av max utnivå	: 4 dB vid 10 kHz med Dolby C
Svaj	: ±0.2% (DIN)
Kanalseparation	: 40 dB (1kHz)
Överhörning	: 60 dB (1 kHz)
Harmonisk distorsion	: k3; 0,8% (metallband, 315 Hz 0 VU)
Tonhuvuden	: Däck A; METAPERM huvud för avspelning × 1, Däck B; METAPERM huvud för in/avspelning, 2 spalts feriithuvud vör radering; Kombinationshuvud × 1
Motorer	: Elektroniskt styrd likströmsmotor för kapstan/spole × 1 Likströmsmotor för snabbspolning × 1 Likströmsmotor för fack × 1 (För både däck A och B)
Snabbspolningstid	: Ca 110 sek. (C-60 kassett)
Ingångar	
LINE IN (× 1 krets)	: Inkänslight; 80 mV (0 VU) Ingångsimpedans; 50 kΩ
Utgångar	
LINE OUT (× 1 krets)	: Utgångsnivå; 300 mV (0 VU) Utgångsimpedans; 5 kΩ
PHONES, 1 st	: Utgångsnivå; 0,3 mW/8 Ω (0 VU) Passande impedans; 8 Ω - 1 kΩ
Andra kontakter	: COMPU LINK-1/ SYNCHRO × 2
Strömart	: ~ 230 V, 50/60 Hz
Effecktforbrukning	: 17 W (Standby-läge; 1,6 W)
Mått (B × H × D)	: 435 ×133 × 328 mm
Vikt	: 4,8 kg
Tillbehör	: Kabel med stiftpluggar .....2 Fjärrstyrningskabel 1

Rätt till ändringar förbehålles.

Weitere Anschlüsse	: COMPU LINK-1 /SYNCHRO × 2
Spannungsversorgung	: Netz 230 V, 50/60 Hz
Leistungsaufnahme	: 17 W bei Betrieb 1,6 W bei Betriebsbereitschaft
Abmessungen (B × H × T)	: 435 × 133 × 328 mm
Gewicht	: 4,8 kg
Zubehör	: Chinchkabel 2 Fernbedienkabel 1

Technische Änderungen vorbehalten !

Autres prises	: COMPU LINK-1 /SYNCHRO × 2
Alimentation	: 230 V CA, 50/60 Hz
Consommation	: 17 W avec alimentation en circuit 1,6 W avec alimentation hors circuit
Dimensions (L × H × P)	: 435 × 133 × 328 mm
Poids:	4,8 kg
Accessoires:	Fil à broches.....2 Fil de télécommande....1

Présentation et caractéristiques modifiables sans préavis

Andere aansluitingen	: COMPU LINK-1 /SYNCHRO × 2
Netspanning	: 230 V wisselstroom, 50/60 Hz
Stroomverbruik	: Met toestel aan; 17 W Met toestel uitgeschakeld; 1,6 W
Afmetingen (B × H × D)	: 435 × 133 × 328 mm
Gewicht	: 4,8 kg
Toebehoren	:Penstekkersnoer .....2 Afstandsbedieningskabel.....1

Wijzigingen in ontwerp en specifikaties voorbehouden.

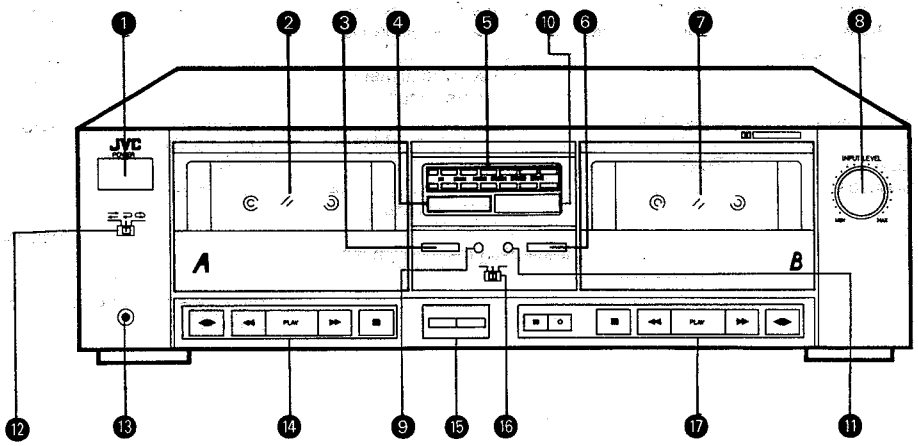
SPECIFICATIONS

(B-version)

Type	: Stereo double cassette deck
Track system	: 4-track, 2-channel
Tape speed	: 4.8cm (1-7/8 inch/sec) (Normal) : 9.5cm (3-3/4 inch/sec) (High)
Frequency response	: (-20 dB recording) Metal tape; 30 - 16,000 Hz (± 3 dB) Chrome tape; 30 - 15,000 Hz (± 3 dB) Normal tape; 30 - 15,000 Hz (± 3 dB)
S/N ratio	: 58 dB (S = 315 Hz, k3 = 3% N = A-weighted, metal tape) The S/N is improved by about 15 dB at 500 Hz and by max. 20 dB at 1 kHz ~ 10 kHz with Dolby C NR on and improved by 5 dB at 1 kHz and by 10 dB at above 5 kHz with DOLBY B NR on.
Improvement of MOL	: 4 dB at 10 kHz with Dolby C NR on.
Wow and flutter	: ±0.2% (DIN)
Channel separation	: 60 dB (1kHz)
Crosstalk	: 40 dB (1 kHz)
Harmonic distortion	: k3; 0.8% (metal tape, 315 Hz 0 VU)
Heads	: Deck A; METAPERM head for playback × 1 Deck B; METAPERM head for recording/playback, 2-gap ferrite head for erasure; Combination head × 1
Motors	: Electric governed DC motor for capstan × 1 DC motor for reel × 1 DC motor for mechanism × 1 (For both decks A and B)
Fast forward/Rewind time	: Approx. 110 sec. with C-60 cassette
Input terminals	
LINE IN (× 1 circuit)	: Input sensitivity; 80 mV (0 VU) Input impedance; 50 kΩ
Output terminals	
LINE OUT (× 1 circuit)	: Output level; 300 mV (0 VU) Output impedance; 5 kΩ
PHONES × 1	: Output level; 0.3 mW/8 Ω (0 VU), Matching impedance ; 8 Ω - 1 kΩ
Other terminals	: COMPU LINK-1/SYNCHRO × 2
Power requirement	: AC 240 V, 50/60 Hz
Power consumption	: With power switch on 17 W With power switch standby 1.6 W
Dimensions (W × H × D)	: 435 × 133 × 328 mm
Weight	: 4.8 kg
Accessories	: Pin plug cord .....2 Remote cable 1

Design and specifications are subject to change without notice.

4 Names of Parts and Their Functions



❶ **POWER switch**
❷ **Cassette holder (deck A)**
❸ **A DECK EJECT button**
❹ **Indicators**

DECK A

◄◄ : This lights when rewinding the tape right to left.
PLAY : This lights when in the playback.
►► : This lights when rewinding the tape left to right.
◄, ► : Indicates the direction of tape travel.
HIGH DUB ► : This lights when in the high-speed dubbing.
DUB► : This lights when in the normal-speed dubbing.
DDRP : Lights when in DDRP operation mode.
⇄ : Indicates reverse mode.

DECK B

◄◄ : This lights when rewinding the tape right to left.
PLAY : Lights when the unit is in the playback and record modes. This flashes when in the record-pause mode.
►► : This lights when rewinding the tape left to right.
REC : Lights when the unit is in the record and record-pause modes; blinks during record muting.
◄, ► : Indicates the direction of tape travel.

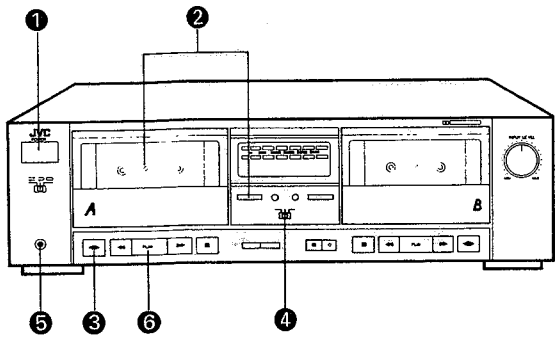
❺ **PEAK LEVEL INDICATOR**
These indicators light according to the level of the signal being recorded or the level of the signal recorded on the tape.

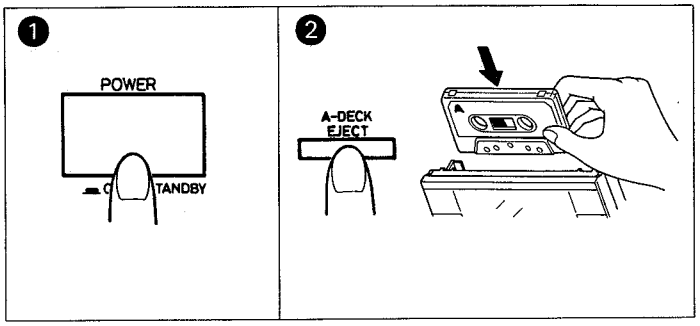
Note:
0 dB : IEC (DIN) STANDARD LEVEL (250 nWb/m)
0 VU : EIAJ STANDARD LEVEL (160 nWb/m)
DD : DOLBY NR STANDARD LEVEL

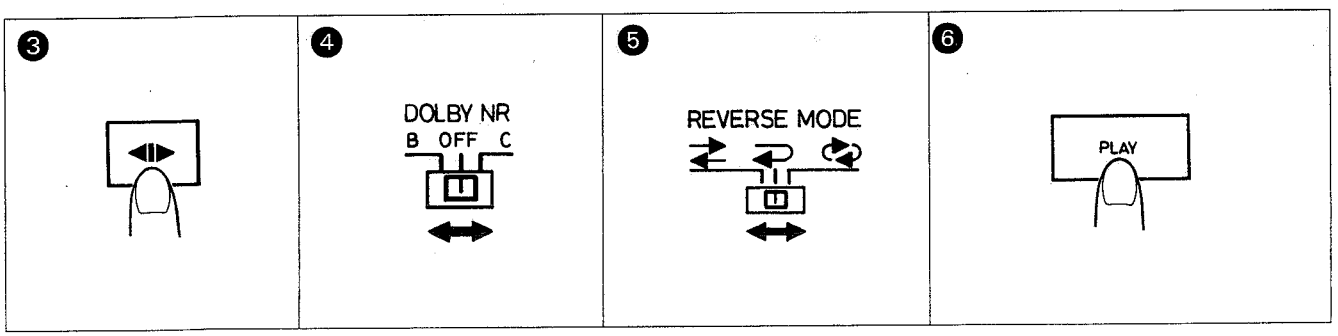
❻ **B DECK EJECT button**
❼ **Cassette holder (deck B)**
❽ **INPUT LEVEL control**
❾ **Digital counter (A or B) setting button**
When this button is pressed, the digital counter indicator changes between deck A and B.
❿ **Digital counter**
The "A" indicator lights during counter indication of deck A. The indicator goes off during counter indication of deck B.
When the power is turned on, the digital counter displays the status of deck B.
When the power is turned off, the counter is cleared.
⓫ **Counter RESET button**
Press this button to set the digital counter to "0000"
⓬ **REVERSE MODE switch**
Select the single side or full record/playback mode, or the continuous play mode. (See page 31.)
• ⇄ : For single-side recording or playback.
• ⇄ : To play or record both sides A and B.
• ⇄ : To play sides A and B continuously.
⓭ **PHONES jack**
Connect headphones (with an impedance of 8 Ω to 1 kΩ).
⓮ **Cassette operation buttons (deck A)**
◄► (direction): Press to change the direction of tape travel.
◄◄ : Press to wind the tape quickly from right to left.
PLAY: Press to play the tape.
►► : Press to wind the tape quickly from left to right.
■ (stop): Press to stop the tape. (The tape automatically stops when it reaches the end.)
⓯ **A ► B SYNCHRO DUBBING button**
• NORM SPEED: Press to perform normal-speed dubbing.
• HIGH SPEED: Press to perform high-speed dubbing.
⓰ **DOLBY NR switch**
Set to B or C for recording using the Dolby NR system or for playing back a tape that was recorded using the Dolby NR system.
Set to OFF when the Dolby NR system is not used.
⓱ **Cassette operation buttons (deck B)**
❚❚ PAUSE: Press to stop the tape temporarily during recording and playback.
Press the PLAY button to release the pause mode.
O REC/REC MUTE: Press the PLAY button while pressing this button to start recording, and press to leave an appropriate non-recorded section. (See page 23.)
■ (stop): Press to stop the tape.
Also press to stop both decks simultaneously during dubbing.
◄◄ : Press to wind the tape quickly from right to left.
PLAY: Press to start recording/playback.
►► : Press to wind the tape quickly from left to right.
◄► (direction): Press to change the direction of tape travel.

5 Operation

PLAYBACK







Playback of deck A
Operate in the order of the numbers in the illustration.

1. Press the POWER switch to set to ON (▬).
2. Load a prerecorded cassette with side A facing out.
3. Select the side to be played back.
   Side A... Forward direction (PLAY ▶▶)
   Side B... Reverse direction (◀◀ PLAY)
4. Set the DOLBY NR switch to the same position as when the tape was recorded.
5. Select the REVERSE MODE. (See page 31.)
6. Press the PLAY button of deck A to start playback.

Playback of deck B
Perform steps 2 to 6 of the above procedure for deck B.

Continuous play
First set the REVERSE MODE switch to ⇄. Load cassette tapes in both decks and press the PLAY button of the deck to be played first for continuous play of both decks.

- When playback in the reverse direction ends, the deck switches to the standby mode in the forward direction. At this time, the other deck starts playback. This operation is repeated between decks A and B. While one deck is playing back, the cassette in the other one can be replaced. This is convenient to the long-time playback of background music.
- Press the ■ (stop) button of the deck that is running to stop continuous play.

Note:

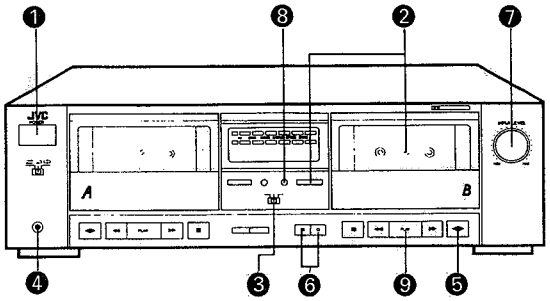
- Use recorded tapes with the same noise reduction mode in decks A and B.

RECORDING

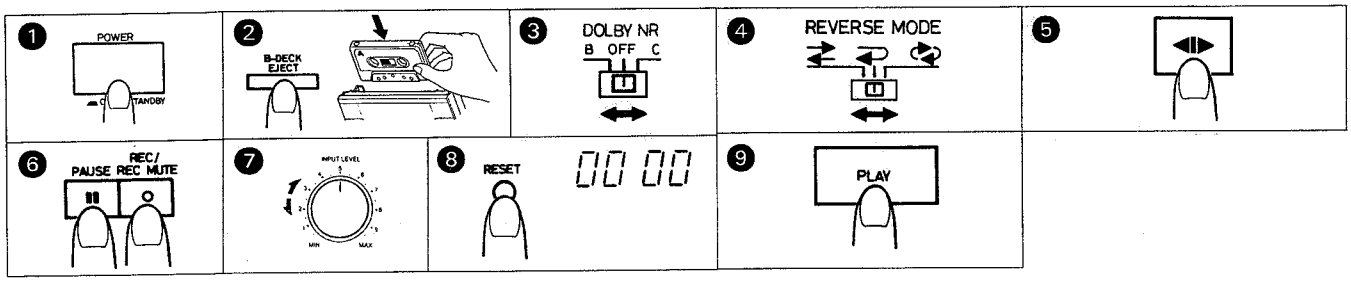
Operate in the order of the numbers in the illustration.

- Make sure the safety tab of the cassette has not been broken off.

Deck B only



Nur Deck B **Platine B seulement** **Alleen deck B** **Magnetófono B solamente**



❶ Press the POWER switch to set to ON (⏻).
❷ Load a cassette for recording.
❸ Set the DOLBY NR switch as required.
❹ Select the REVERSE MODE. (See page 31.)
❺ Select the side to be recorded.
❻ Press the ⏸ PAUSE button and ○ REC/REC MUTE button (record-pause mode).
REC lights and PLAY indicator flashes.
❼ Adjust the recording level. (See page 25.)
❽ Press to "0000".
❾ Press the PLAY button to start recording.

WARNING
It may be unlawful to record or playback copyrighted material without the consent of the copyright owner.

DDRP (Dynamics Detection Recording Processor) recording
DDRP recording is performed with suitable JVC CD players and the recording level adjustment is performed automatically.
Since recording level adjustment is performed automatically for different types of tape (normal, CrO_2 and metal), the adjustment of INPUT LEVEL control is not required.
Read the instruction book of your CD player carefully.

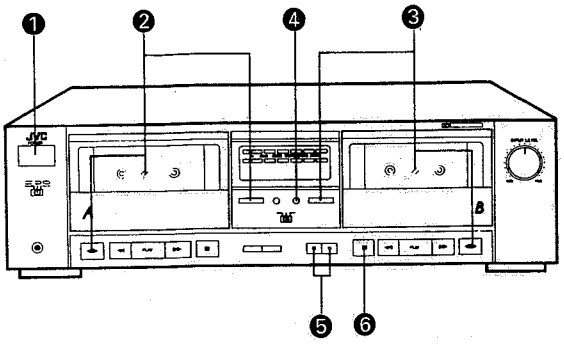
Erasing
When recording on a prerecorded tape, the previous recording is automatically erased and only the new program is recorded on the tape.
To erase a tape without making a new recording...
Follow the section "RECORDING" but in step ❼, set the INPUT LEVEL control to MIN.

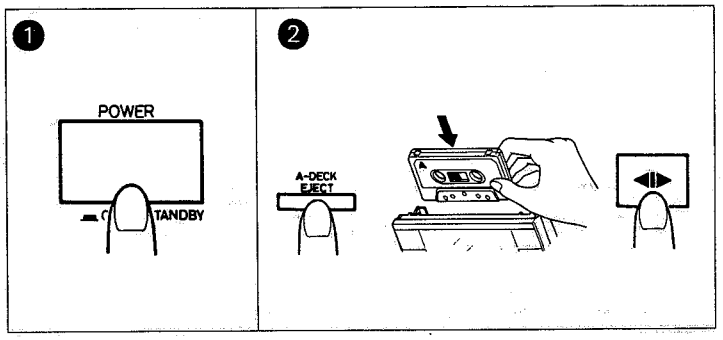
DDRP (Dynamics Detection Recording Processor) recording
The DDRP function makes possible fully automatic recording when used with a suitable JVC CD player. When the DDRP button of a suitable JVC CD player is pressed, the recording level is first adjusted automatically, then recording starts; it is not necessory to start recording by the normal procedure.

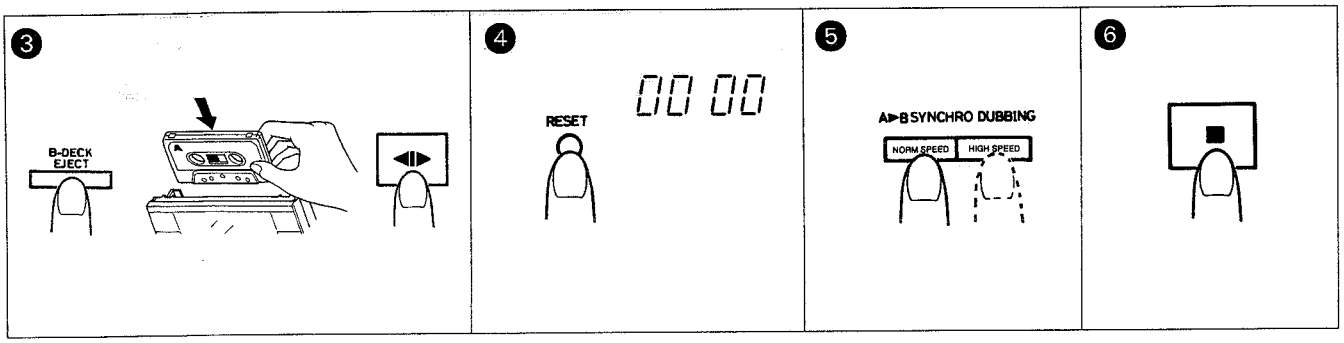
Notes:
- Synchronized recording or DDRP recording stops automatically when the CD player stops playing.
- Synchronized recording does not start except when the record-pause mode is set by simultaneously pressing the ○ REC/REC MUTE and ⏸ PAUSE buttons in the stop mode.
- To cancel synchronized recording or DDRP recording, press the STOP button of the CD player or cassette deck.
- The source is locked to the CD position during synchronized recording or DDRP recording to avoid accidental stops or switch-over to another component. To switch over the components, cancel synchronized recording or DDRP recording first.

The INPUT LEVEL control does not function during DDRP recording.

DUBBING







- **Synchro dubbing**

❶ Press the POWER switch to set to ON (⏏).
❷ Insert a prerecorded tape into deck A with side A facing out and press the ◀▮▶ (direction) button to select the travel direction.
❸ Insert the blank tape with side A facing out into deck B, and press the ◀▮▶ (direction) button to select the side to be recorded.
❹ Press to "0000".
❺ Press the SYNCHRO DUBBING (NORM or HIGH SPEED) button to start dubbing.
❻ Press the ■ (stop) button of deck B to stop dubbing.

When deck B stops, the dubbing mode is automatically released.

- **Synchro record muting**

When deck A stops or enters any mode other than the playback mode during dubbing, deck B enters the record mute operation automatically and then enters the record-pause mode.

- **Before pressing the SYNCHRO DUBBING button**

Confirm that deck B is in the stop mode before starting dubbing.

Dubbing and DOLBY NR switch

During dubbing, the same NR mode selected for the playback cassette is applied to the recording cassette, regardless of the position of the NR switch.

Input level

Recording is performed at the same level as the playback tape during dubbing regardless of the position of the INPUT LEVEL control.

Tape editing

1. Press the O REC/REC MUTE button when finished dubbing a tune.
   Deck B automatically enters the record muting mode and leaves a non-recorded section of about 4 seconds then enters the record-pause mode.
2. Press the ■ (stop) button of deck A and search for the next tune you want by using the ▶▶ , ◀◀ , or PLAY button. Then stop the cassette just before the beginning of the tune.
3. Press the same SYNCHRO DUBBING button pressed before the pause again, and dubbing will start.

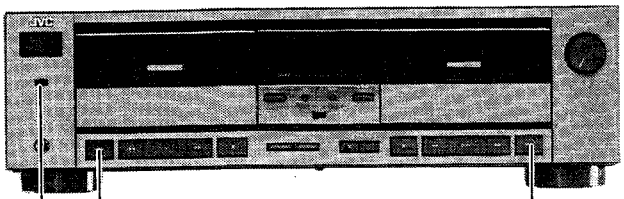
Notes at dubbing

1. Normal-speed dubbing is recommended to obtain good sound quality.
2. Television receivers placed close to the deck may cause interference on the recorded signal when the deck is used in the high-speed dubbing mode. If this happens, either turn off the television receiver or use the normal-speed dubbing mode.

6 Location of Main Parts

- **TD-W305TN**

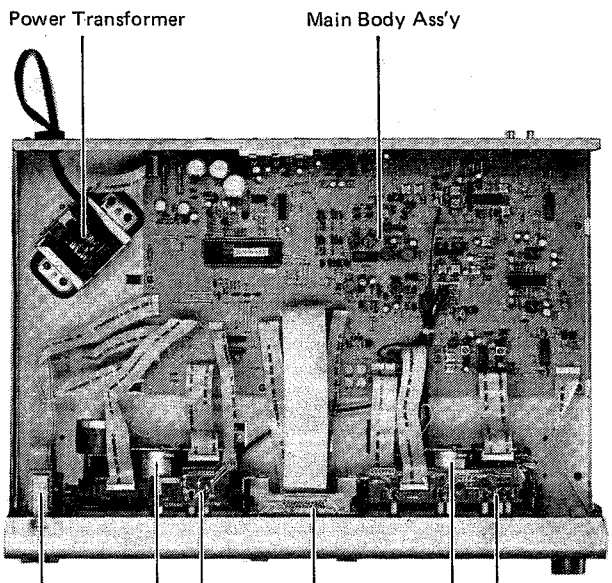
Reverse Mechanism



Direction Switch

Direction Switch

Reverse Mode Switch



Power Transformer

Main Body Ass'y

Power Switch Ass'y

Leaf Switch Board Ass'y

FL Board Ass'y

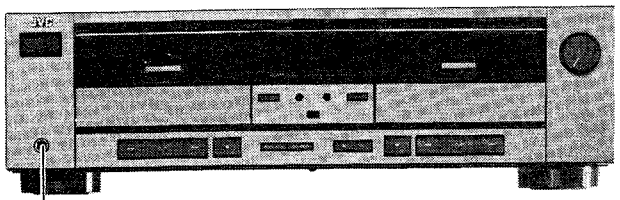
Leaf Switch Board Ass'y

Mechanism [B] Ass'y

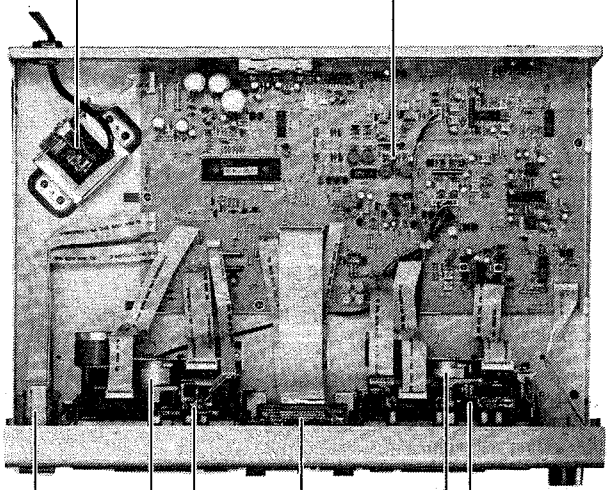
Machanism [A] Ass'y

- **TD-W205TN**

1-way Mechanism



Headphone Jack



Power Transformer

Main Body Ass'y

Power Switch Ass'y

Leaf Switch Board Ass'y

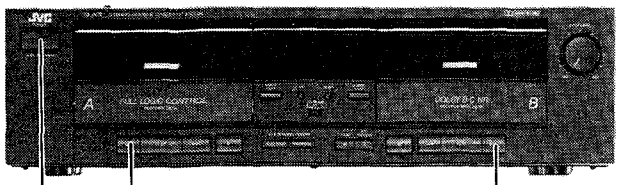
FL Board Ass'y

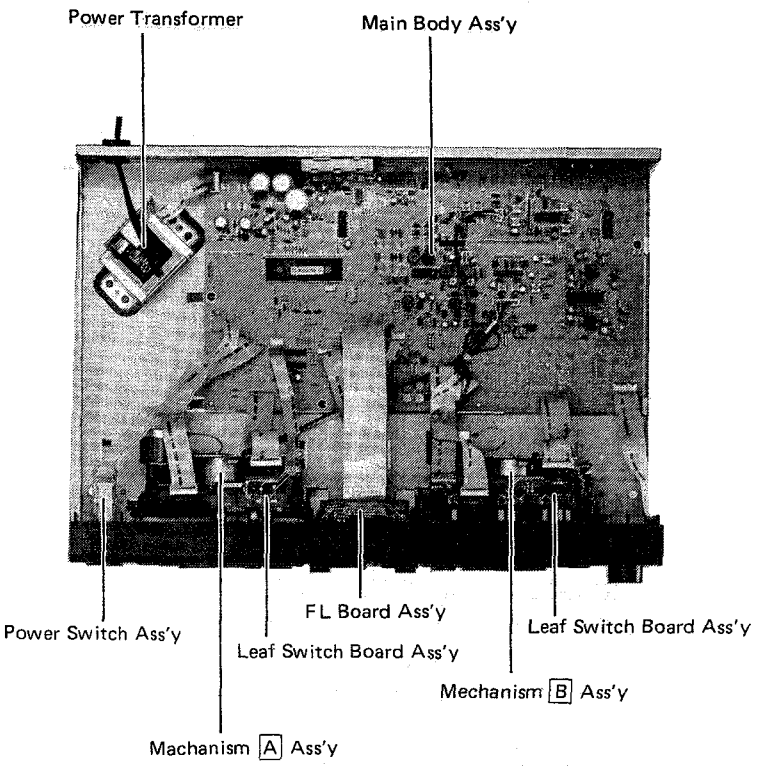
Leaf Switch Board Ass'y

Mechanism [B] Ass'y

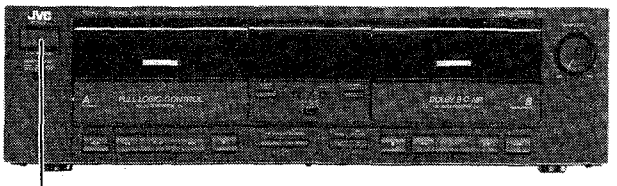
Mechanism [A] Ass'y

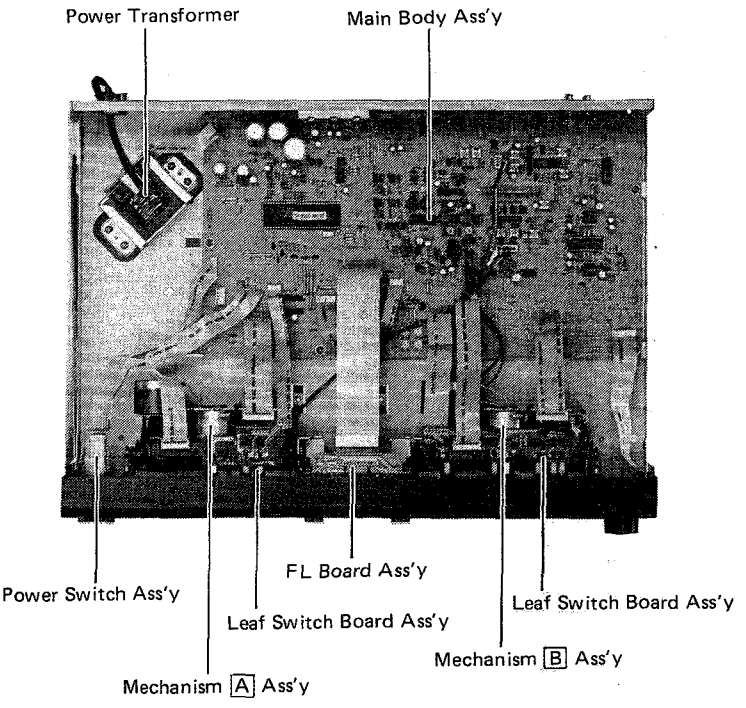
• TD-W75BK





• TD-W77BK





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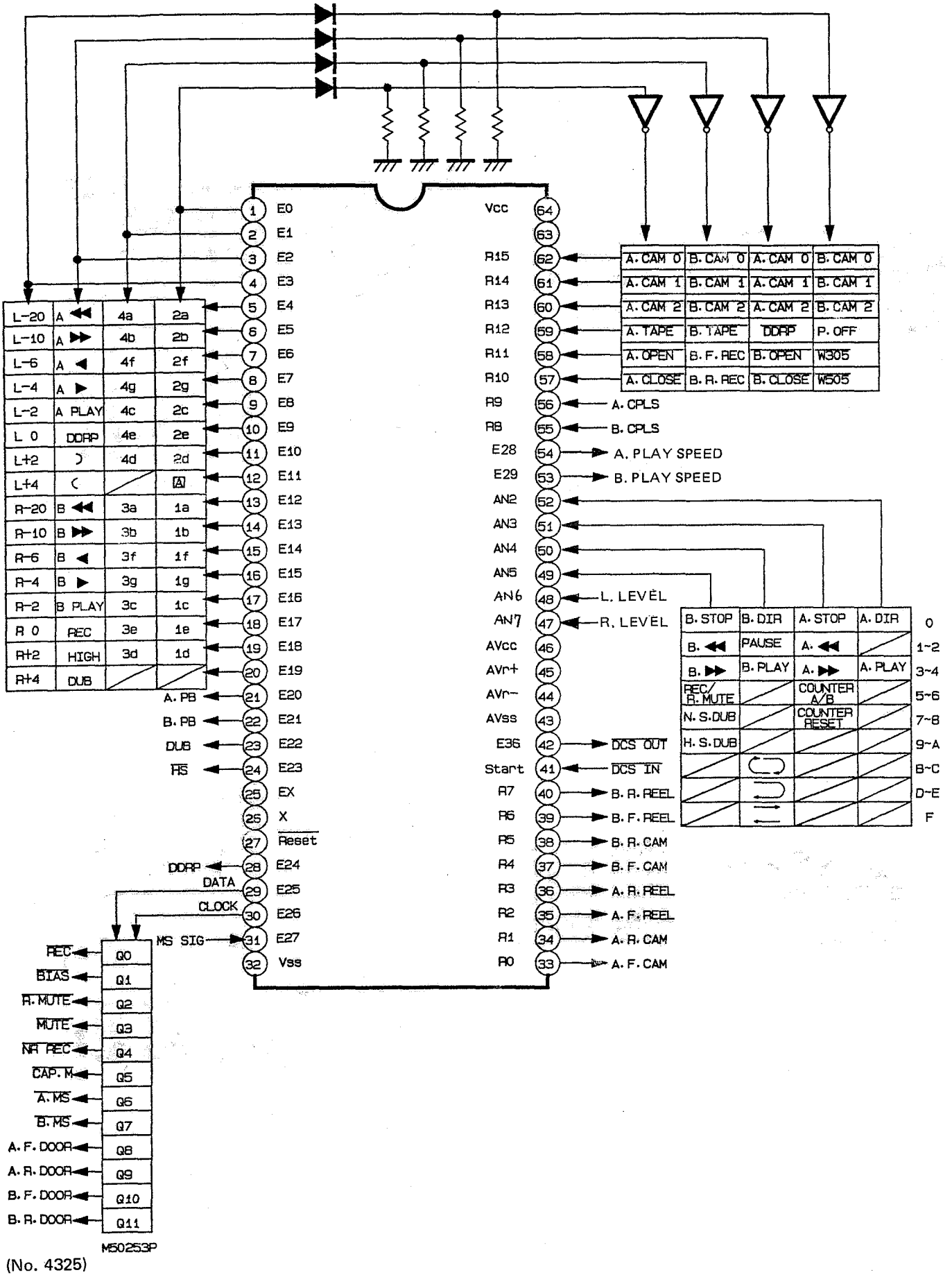


PIN FUNCTION

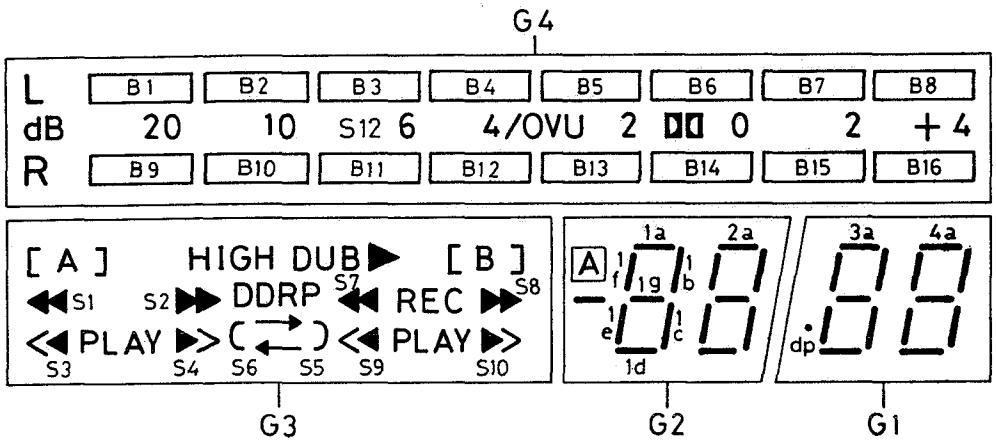
PIN No.	PORT	SIGNAL NAME	ACTIVE LEVEL	FUNCTION/OPERATION
1 ~ 4	E0 ~ E3	G0 G3	H ~	]– FL GRID OUTPUT (used in common with DYNAMIC SCAN SELECT OUTPUT)
5 ~ 20	E4 ~ E19	S0 S15	H ~	]– FL ANODE OUTPUT (For segment arrangement, see ports location diagram.)
21	E20	A. PB	H	MECHANISM A PB AMP. SWITCHING OUTPUT Mechanism A in PB : "H"
22	E21	B. PB	H	MECHANISM B PB AMP. SWITCHING OUTPUT Mechanism B in PB : "H"
23	E22	DUB	H	In Dubbing mode (both in Normal speed dubbing and High speed dubbing) : "H"
24	E23	$\overline{HS}$	L	In High speed dubbing : "L"
28	E24	CLOCK		CLOCK OUTPUT for Port Expander (clock pulse width : 500 ns or more.) (For timing, see another section.)
29	E25	DDRP	H	DDRP AMP SWITCHING OUTPUT ON : "H" OFF : "L" • With input of DCS "B6" : ON • With input of DCS "B7"/At the end of Recording : OFF • When DDRP of DYNAMIC SCAN INPUT is "H" : No operation
30	E26	DATA		DATA OUTPUT for Port Expander (For timing, see another section.)
31	E27	MS SIG	H	MUSIC DETECTION INPUT for Music Scan. When requested music is detected : "H" [Music Detection Time] • Presence (being played) of requested music is judged when "H" continues for 150 msec or longer after "L" period of 10 msec or longer. • Absence (play finishes) of requested music is judged when "L" continues for 10 msec or longer after "H" period of 150 msec or longer. • Music detection is prohibited for 200 msec after MS mode starts. • No operation in W305/W205 mode.
33	R0	A.F. CAM	H	NORMAL ROTATION OUTPUT of Mechanism A Cam Motor. R. PLAY → F. PLAY : "H"
34	R1	A.R. CAM	H	REVERSE ROTATION OUTPUT of Mechanism A Cam Motor. F. PLAY → R. PLAY : "H"
35	R2	A.F. REEL	H	NORMAL ROTATION OUTPUT of Mechanism A Reel Motor. F. PLAY, "▷▷" : "H"
36	R3	A.R. REEL	H	REVERSE ROTATION OUTPUT of Mechanism A Reel Motor. R. PLAY, "◁◁" : "H"
37	R4	B.F. CAM	H	NORMAL ROTATION OUTPUT of Mechanism B Cam Motor. R. PLAY → F. PLAY : "H"
38	R5	B.R. CAM	H	REVERSE ROTATION OUTPUT of Mechanism B Cam Motor. F. PLAY → R. PLAY : "H"
39	R6	B.F. REEL	H	NORMAL ROTATION OUTPUT of Mechanism B Reel Motor. F. PLAY, "▷▷" : "H"
40	R7	B.R. REEL	H	REVERSE ROTATION OUTPUT of Mechanism B Reel Motor. R. PLAY, "◁◁" : "H"
41	E37	$\overline{DCS\ IN}$	L	DCS INPUT. Inverted input signal of DCS line (For detail, refer to another section.)
42	E36	$\overline{DCS\ OUT}$	L	DCS OUTPUT. Externally interverted output. (For detail, refer to another section.)
47	E35	B. PLAY SPEED	H	Mechanism B REEL MOTOR REGULATION OUTPUT (SPEED CONTROL) When Mechanism B in PLAY, REC/PLAY, REC MUTE, N.S. DUB, H.S. DUB : "H"
48	E34	A. PLAY SPEED	H	Mechanism A REEL MOTOR REGULATION OUTPUT (SPEED CONTROL) When Mechanism A in PLAY, N.S. DUB, H.S. DUB : "H"
53 54	AN1 AN0	R. LEVEL L. LEVEL	– –	R-ch L-ch] LEVEL METER A/D INPUT (For detail, refer to another section.)
55 56	R8 R9	B. CPLS A. CPLS		MECHANISM B COUNTER PULSE INPUT MECHANISM A COUNTER PULSE INPUT] for Reel End Detection, Electronic Counter • Pulse whose minimum edge width is 3.5 msec must be received without fail. • Auto Stop Period: When COUNTER PULSE does not vary in reel motor rotation for the following period, Auto Stop mode takes place: In Fast Foward operation (◁◁, ▷▷ , MS) : 1.5 sec In Normal operation (PLAY, REC/PLAY) : 1.5 sec In normal operation, counting is not operated for 3.5 sec after start of reel motor and auto stop takes place 1.5 sec after the non-counting period for 3.5 sec.

EXPLANATION OF FL601

Respective indications by the FL indicator are as shown in the figure.

When all or some indications do not go on, inspect the cause in the following manner.

1. Confirm power supply to F1 and F2.
2. When characters/symbols shown in the figure do not light, check up according to the anode and grid matrix table. If both anode and grid have high potential, it is considered that the condition is generally good and the trouble results from fault in the FL tube.
3. Measurement of terminal voltage should be done at the terminal of the FL tube.
4. Example of trouble:
   "PLAY" does not light.
   Make sure of high level both at A5 and G3.



ANODE CONNECTION

Grid No. / Anode No.	G4	G3	G2	G1
A1	B1	◁◁ (S1)	2a	4a
A2	B2	(S2) ▷▷	2b	4b
A3	B3	◁ (S3)	2f	4f
A4	B4	(S4) ▷	2g	4g
A5	B5	**PLAY**	2c	4c
A6	B6	**DDRP**	2e	4e
A7	B7	(S5))	2d	4d
A8	B8	((S6)	A	—
A9	B9	◁◁ (S7)	1a	3a
A10	B10	(S8) ▷▷	1b	3b
A11	B11	◁ (S9)	1f	3f
A12	B12	(S10) ▷	1g	3g
A13	B13	**PLAY**	1c	3c
A14	B14	**REC**	1e	3e
A15	B15	**HIGH**	1d	3d
A16	B16	**DUB** ▷	▭	○ (dp)
ADIR	—	S11	—	—
ASC	S12	**[A] [B]**	—	—

JVC

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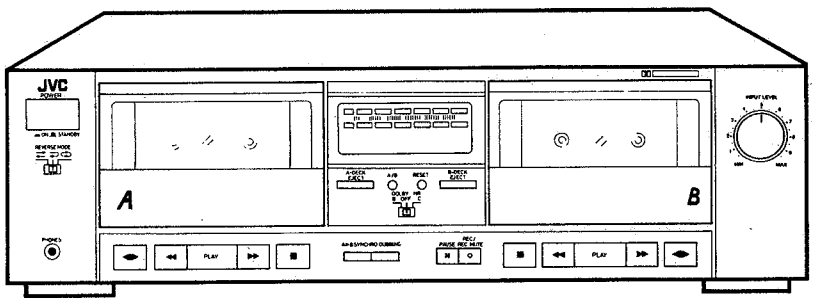
TD-W304BK
TD-W305TN A/B/C/E/G/J/U

SERVICE MANUAL

STEREO DOUBLE CASSETTE DECK

No. 4325-1

TD-W305 and TD-W304 are the same model but different only in the exterior coloring.
TD-W305 is in titanium color while TD-W304 is in black.
For servicing, refer to the parts comparison table on page 22.



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1 Removal of Main Parts

■ Enclosure Section

■ Top cover

1) Remove four screws (1) retaining the top cover from both sides.
2) Remove two screws (2) retaining the top cover from the back side.

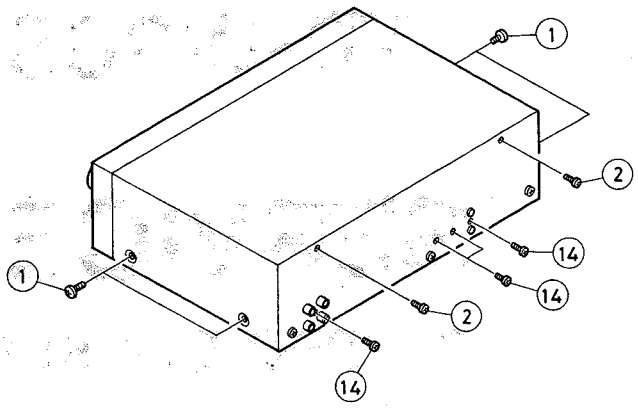


Fig. 1-1

■ Front panel assembly

1) Remove the top cover.
2) Remove two screws (16) retaining the foot of the front side.
3) Remove four screws (3) retaining the mechanism holder to chassis.
4) Remove three screws (4) retaining the front panel ass'y from bottom side.
5) Release the front panel ass'y from two pawls in the front and bottom sides and draw it to the front side.

■ Mechanism assembly

(for deck A and deck B in common)

Although the mechanism assembly can be removed without detaching the front panel ass'y, it is recommended to detach the front panel ass'y to do the work with ease.

1) Remove four screws (5) and (6) or (5') and (6') from the corners of the mechanism.
2) Open the door and remove the mechanism ass'y.
   (At that time, door lock arm spring and door lock arm are removed together with.)
3) For moving the mechanism ass'y only, disconnect the following wirings.
   a) Mechanism ass'y side
      Top side connector of the cam switch board
      Connector of the motor board
   b) Main board ass'y side
      Disconnect wire coming from the leaf switch from CN710 and CN711.
      (In case of deck A, disconnect from CN705.)

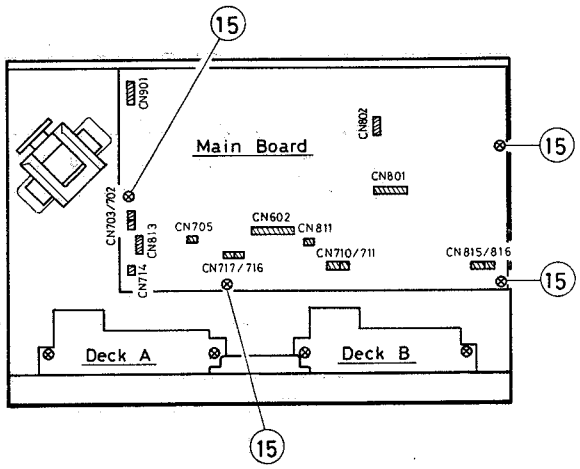


Fig. 1-2

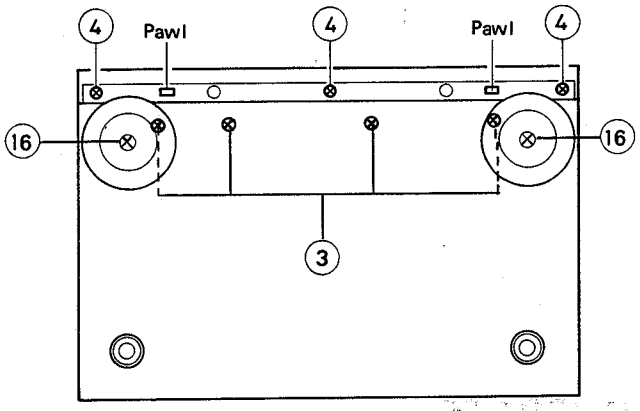


Fig. 1-3

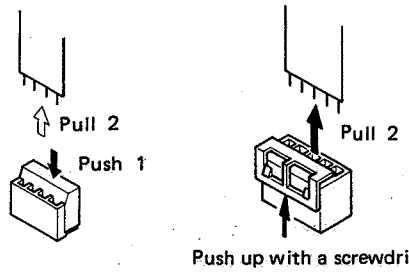


Fig. 1-4

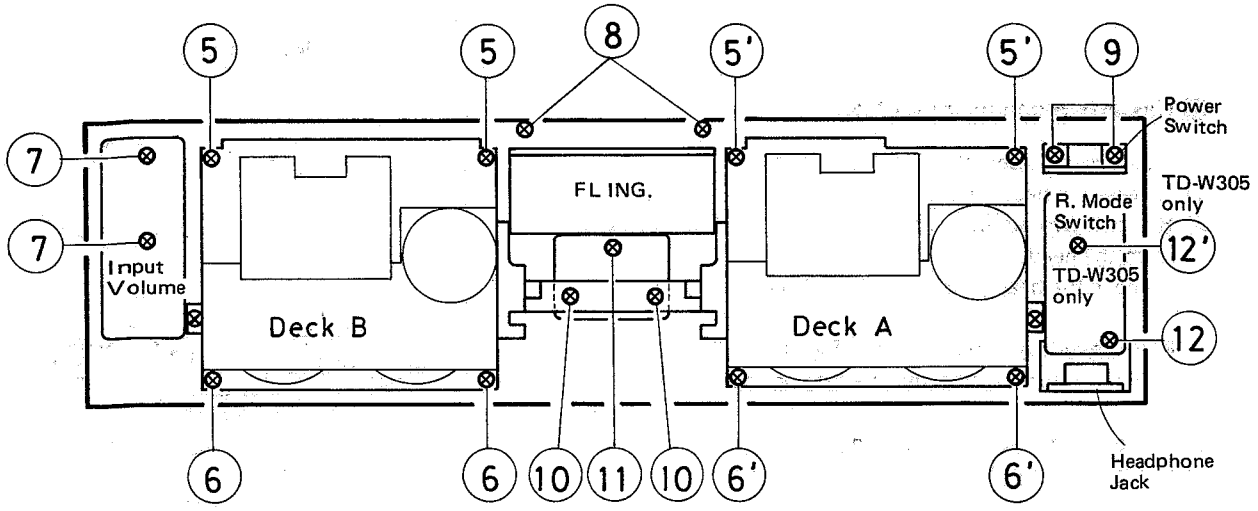


Fig. 1-5

■ **Volume assembly**

1) Remove the volume knob while pulling it.
2) Remove two screws (7) retaining the board ass'y.

■ **FL indicator assembly**

1) Pull F. card cable from the main board for disconnection.
2) Remove two screws (8) retaining the FL holder.

■ **Power switch assembly**

1) Remove two screws (9) retaining the switch.
2) Switch knob can be removed by pulling the switch ass'y.

■ **Reverse mode switch assembly (TD-W305/TD-W304 only)**

1) Remove two screws (12) and (12') retaining the reverse mode switch ass'y.

■ **Headphones jack assembly (TD-W205/TD-W204)**

1) Remove the front panel ass'y.
2) Remove a screw (12) retaining the jack ass'y.

■ **Dolby NR switch assembly**

1) Remove the deck A and deck B.
2) Remove two screws (10) retaining the eject holder ass'y.
3) Remove a screw (10) retaining the switch board.

■ **Mechanism operation switch board assembly**

1) Remove the front panel ass'y.
2) Remove the mechanism ass'y.
3) Detach the mechanism bracket from the cassette holder, and remove the cassette holder from the front panel ass'y.
4) Remove six screws (13) retaining the switch board.

■ **Main board assembly**

1) Remove four screws (14) retaining pin jack, heat sink and synchro jack from the rear side.
2) Disconnect power connector CN901.
3) Remove four screws (15) retaining the main board ass'y. Draw the board ass'y slightly to the front side and raise it by the rear side.

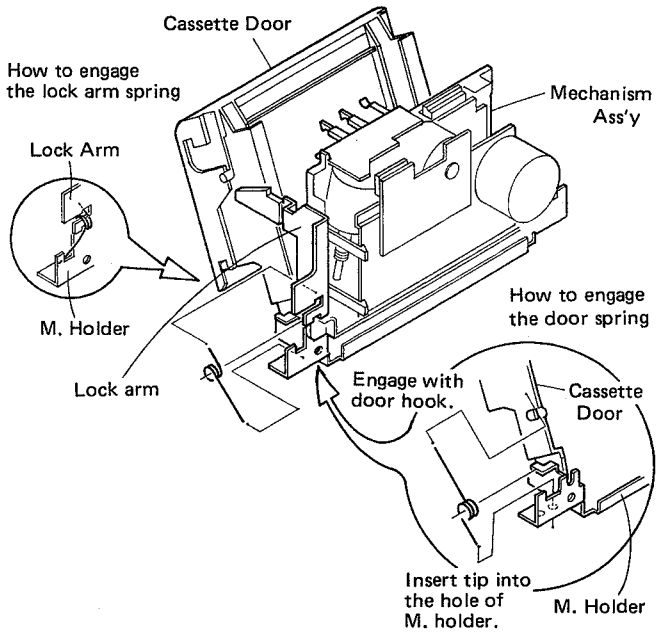


Fig. 1-6

Remove before replacing mechanism button or operation switch.

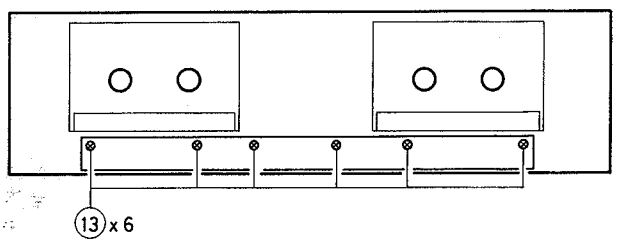


Fig. 1-7

■ Cassette mechanism section

■ **Head mount assembly** (Fig. 1-8, Fig. 1-9)

1) Release the head wire relay board from two pawls.
2) Remove two screws (1) retaining the head mount ass'y from the head base.
3) Remove the head gear (1) and head spring.

Pinch roller assembly (Fig. 1-8, Fig. 1-10)

1) Remove return spring by disengaging the pawl hooking it.
2) Remove the pinch roller spring.
3) For reengaging the spring, refer to the figures (A) and (B).

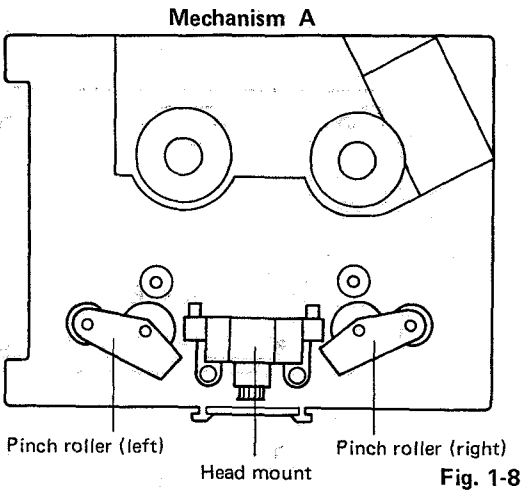


Fig. 1-8

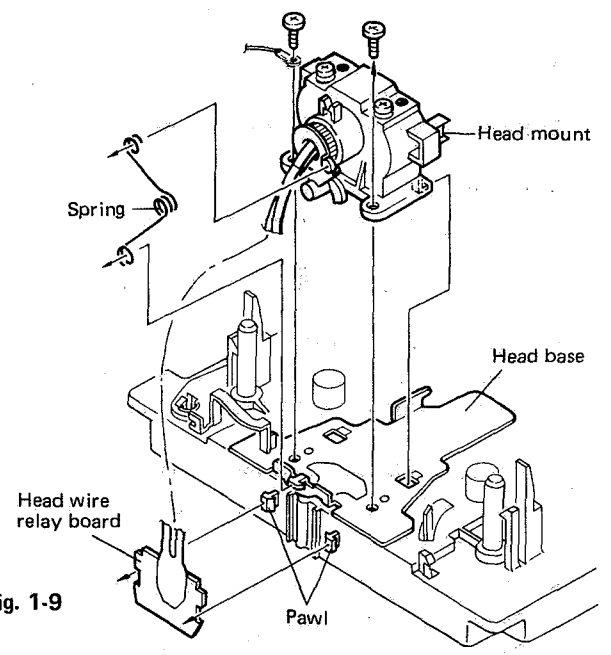


Fig. 1-9

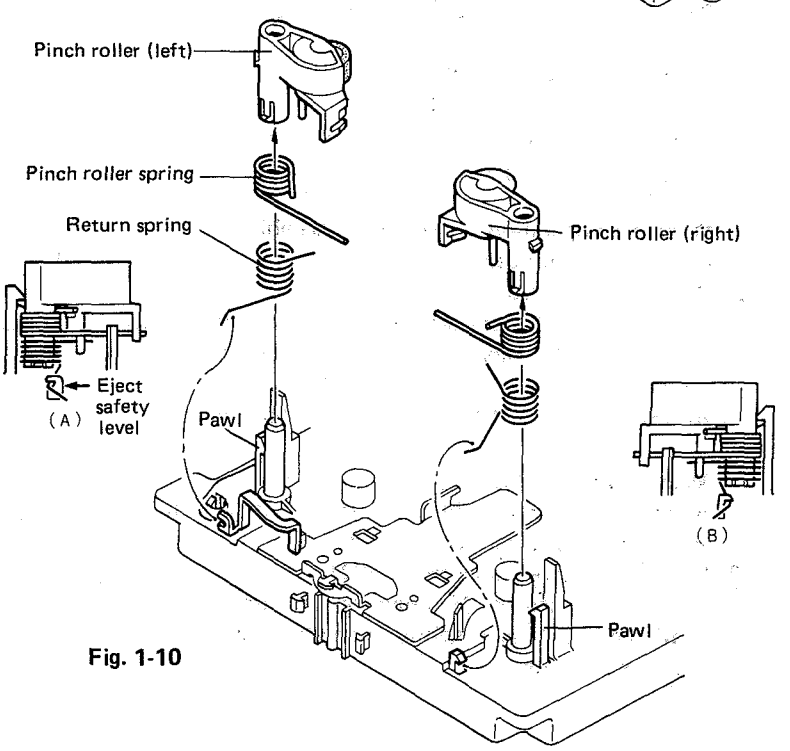


Fig. 1-10

■ **FM bracket/Capstan motor assembly** (Figs. 1-11, 1-12)

1) Remove soldering to separate the drive motor and the motor ass'y. (Mechanism A or B)
2) Remove one screw (2) retaining the FM bracket together.
3) Remove two screws (3) and disengage five pawls, and then the FM bracket and the capstan belt (mechanism A and B) can be removed.
4) Remove two screws (4) retaining the capstan motor from the FM bracket.
5) For reengaging the capstan belt, refer to Fig. 1-13.

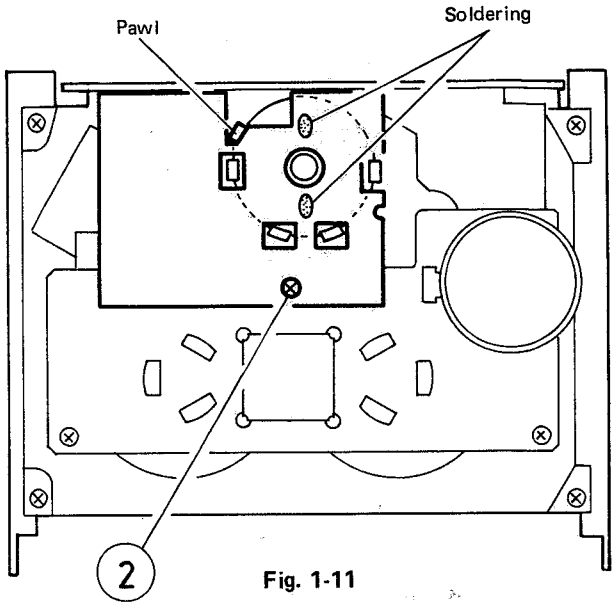


Fig. 1-11

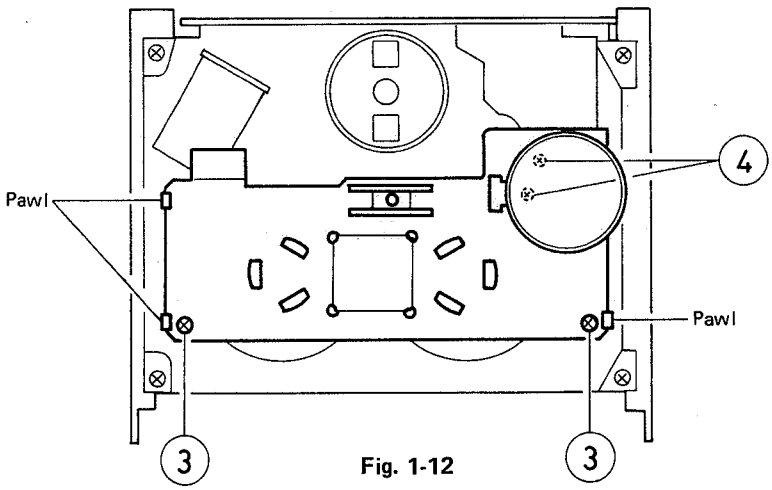


Fig. 1-12

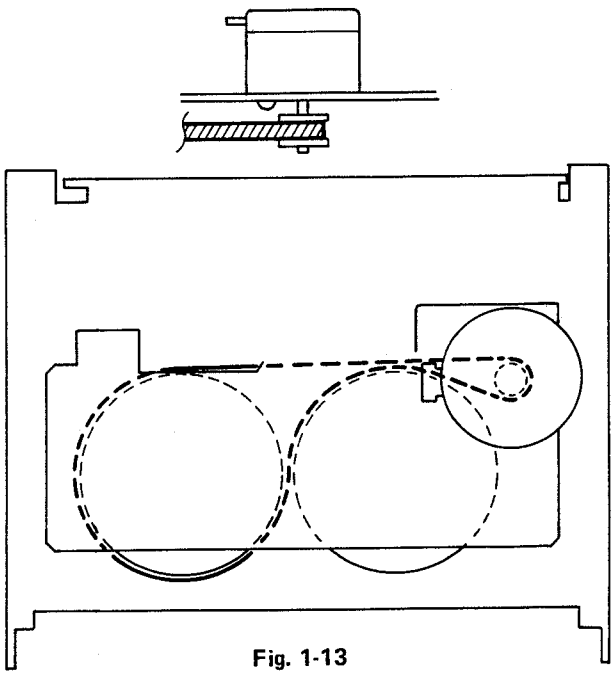


Fig. 1-13

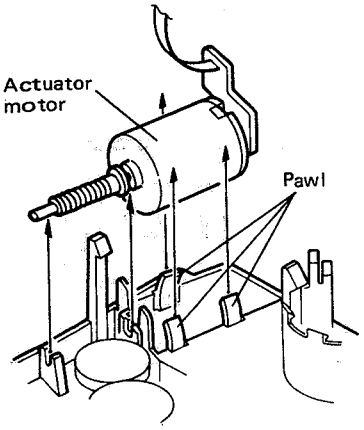


Fig. 1-14

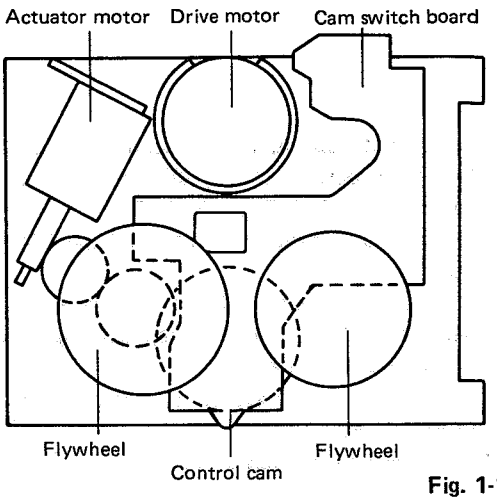


Fig. 1-15

- **Actuator motor assembly** (Fig. 1-14)
  Release the actuator motor ass'y from three pawls.

- **Flywheel assembly** (Fig. 1-15, Fig. 1-16)
  Remove washers from the capstan shaft and draw them out.

- **Drive motor** (Fig. 1-14, Fig. 1-17)

1) Pull out the gear and arm assembly from the drive motor shaft.
2) Remove a screw (5) retaining the drive motor.
3) Disengage four pawls to release the drive motor.

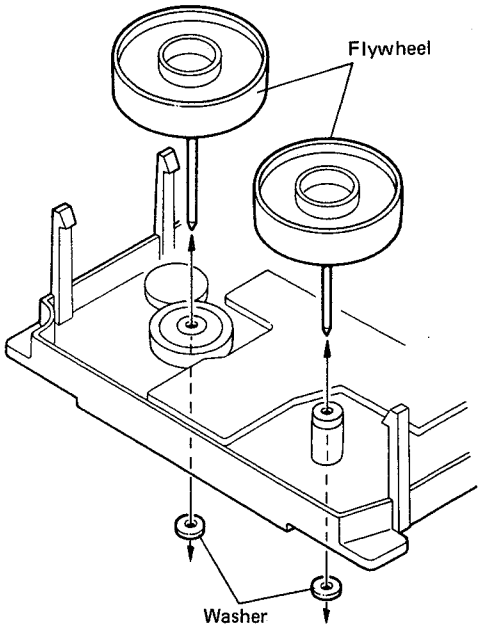


Fig. 1-16

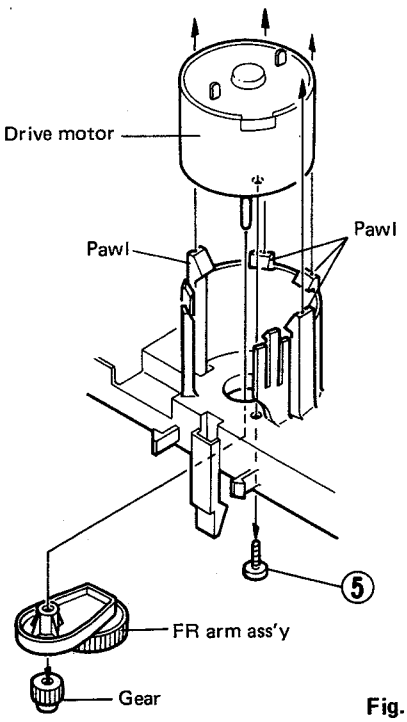


Fig. 1-17

■ **Cam switch board** (Fig. 1-15, Fig. 1-18)
1) Release the cam switch board from six pawls.
2) For gearing between the cam switch board and control cam, see the magnified illustration in a circle.

■ **Actuator gear (large)** (Fig. 1-15, Fig. 1-19)
Release the actuator gear (large) from three pawls.

■ **Control cam** (Fig. 1-15, Fig. 1-19)
1) Release the control cam from two pawls.
2) For assembling the control cam, see the magnified illustration in a circle.

■ **Actuator gear (small)** (Fig. 1-15, Fig. 1-19)
Release the actuator gear (small) from two pawls.

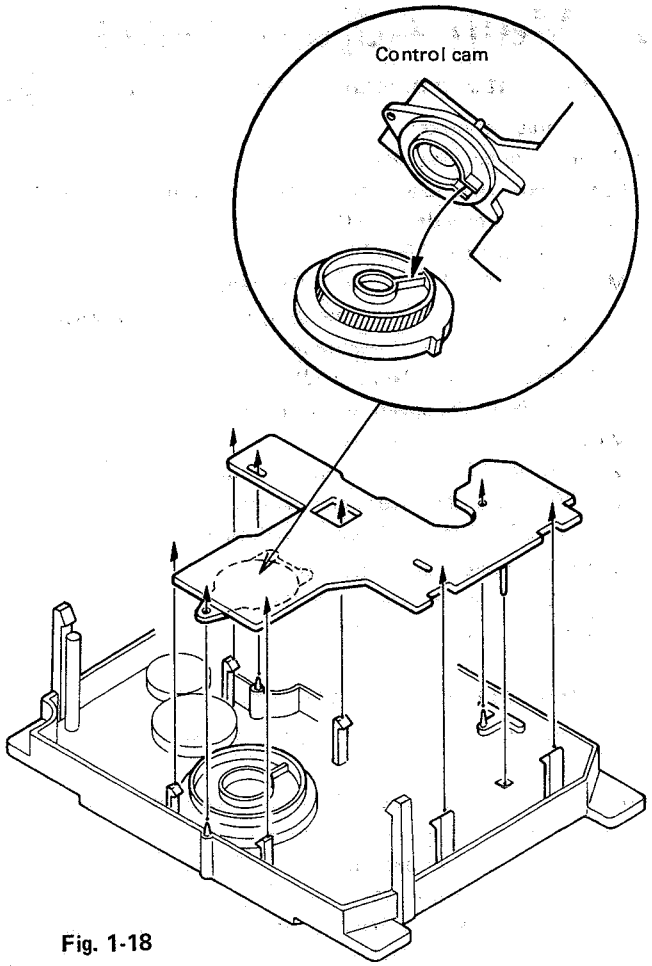


Fig. 1-18

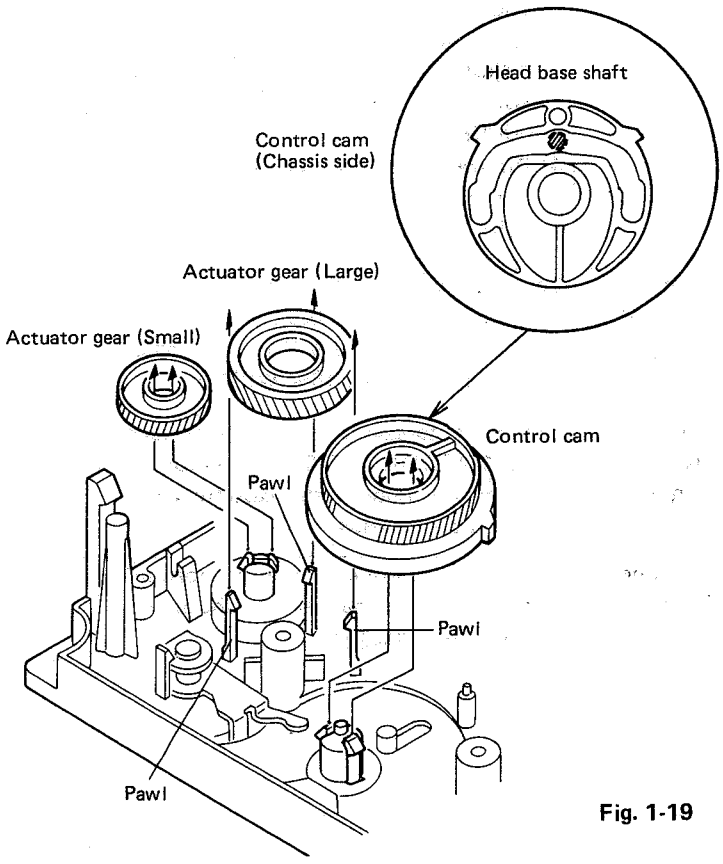


Fig. 1-19

2 Main Adjustments

1. Equipment and measuring instruments used for adjustments

1) Electronic voltmeter
2) Audio frequency oscillator
   (range: 50–20 kHz and output 0 dB with impedance of 600 Ω)
3) Attenuator (impedance: 600 Ω)
4) Standard tape for REC/PB
   Maxell UD (TS-9) – Normal (SF) tape
   TDK SA – Chroma (SA) tape – or equivalent
   JVC ME – Metal tape
5) Reference tape for playback (JVC Test Tape)
   VTT712 (for tape speed, wow flutter adj.)
   VTT724 (for playback level)
   VTT735/VTT739 (for playback frequency response)
   VTT704 (12.5 kHz) (for head azimuth adj.)
6) Resistor 600 Ω (for attenuator matching)
7) Distortion meter (bandpass filter)
8) Torque testing cassette gauge, CTG-N
   (TW2111, TW2121 and TW2231)
9) Wow flutter meter
10) Frequency counter
11) M-300 gauge

■ **Standard level**

Line out	–8 dBs
Head phone out	–24 dBs
Line in	–20 dBs

■ **Power sources**

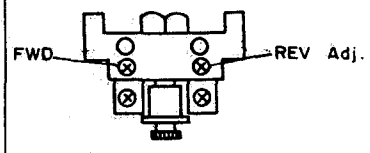
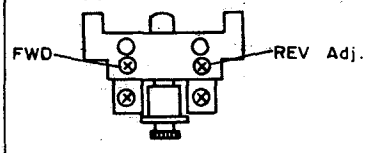
Set the line voltage selector switch to 240 V/230 V/220 V/127 V/120 V/110 V according to your local voltage.

AC 240 V, 50/60 Hz (A/B Version)
AC 220 V, 50/60 Hz (E/G Version)
AC 120 V, 60 Hz (C/J Version)

2. Mechanism adjustment procedure

● Notice: 0 dBs = 0.775 (V)

Item	Adjustment	Adjusting point	Standard value	Remarks
Adjusting motor speed	1. Connect a frequency counter to the LINE OUT terminals. 2. Play back the VTT712 test tape. 3. Adjust for deck [A] : Adjust VR702 for normal speed at 3000 Hz, and VR701 for high speed at 6000 Hz. Adjust for deck [B] : Adjust VR704 for normal speed at 3000 Hz, and VR703 for high speed at 6000 Hz. 4. Difference in FWD and REV frequencies must be less than 45 Hz. (TD-W305).	Deck [A] : Normal; VR702 High; VR701 Deck [B] : Normal; VR704 High; VR703	Normal speed: Deck [1] ; 3000±15 Hz Deck [2] ; 3000±15 Hz High speed: Deck [1] ; 6000±15 Hz Deck [2] ; 6000±15 Hz	1. Perform normal speed adjustment first, and then do high speed adjustment. 2. For high speed adjustment, set the deck for play mode and shortcircuit between TP-701 and TP702. 3. Do not do anything while TP701 and TP702 are short-circuited. 4. Measure at the tape beginning portion.
Checking wow and flutter	Connect a wow and flutter meter to LINE OUT terminals. Play back the VTT712 test tape. Check to see if the reading of the meter is within 0.18% (WRMS).		0.18% (WRMS)	If the reading becomes moving value even if confirming to the standard, a reclaim may be raised. Repairs are necessary.
Checking playback torque	Employ a torque testing cassette tape (TW2111 [FWD] /TW2121 [REV]) for the checking, or remove the cassette cover and use a torque gauge.		27–60 gr-cm	If the standard torque is not obtained, replace the take-up disk assembly.
Checking fast forward/rewind torque	Measure the torque in the fast forward mode in the same manner as in the above. Test cassette : TW2231		90–200 gr-cm	If the standard torque is not obtained, perform the following. 1. Clean the capstan belt, the idler circumference, the motor pulley, the take-up reel disk circumference, the flywheel circumference, etc. 2. Replace the belt and idler.

Item	Adjustment	Adjusting point	Standard value	Remarks
Adjusting Head azimuth	1. Connect an electronic voltmeter to the LINE OUT terminals. 2. Play back the VTT704 (12.5 kHz) test tape. 3. Adjust the head angle with the screw (FWD and REV) until the reading of the electronic voltmeter becomes maximum for both channels (phase difference must be "0".) 4. Repeat the adjustment in FWD and REV modes as well as for the decks A and B.	Screws (FWD, REV)	Maximum	Deck B  Deck A  Fig. 2-1

3. Electrical adjustments location

- **Main Amp. P.C. Board (parts assembly side view)**

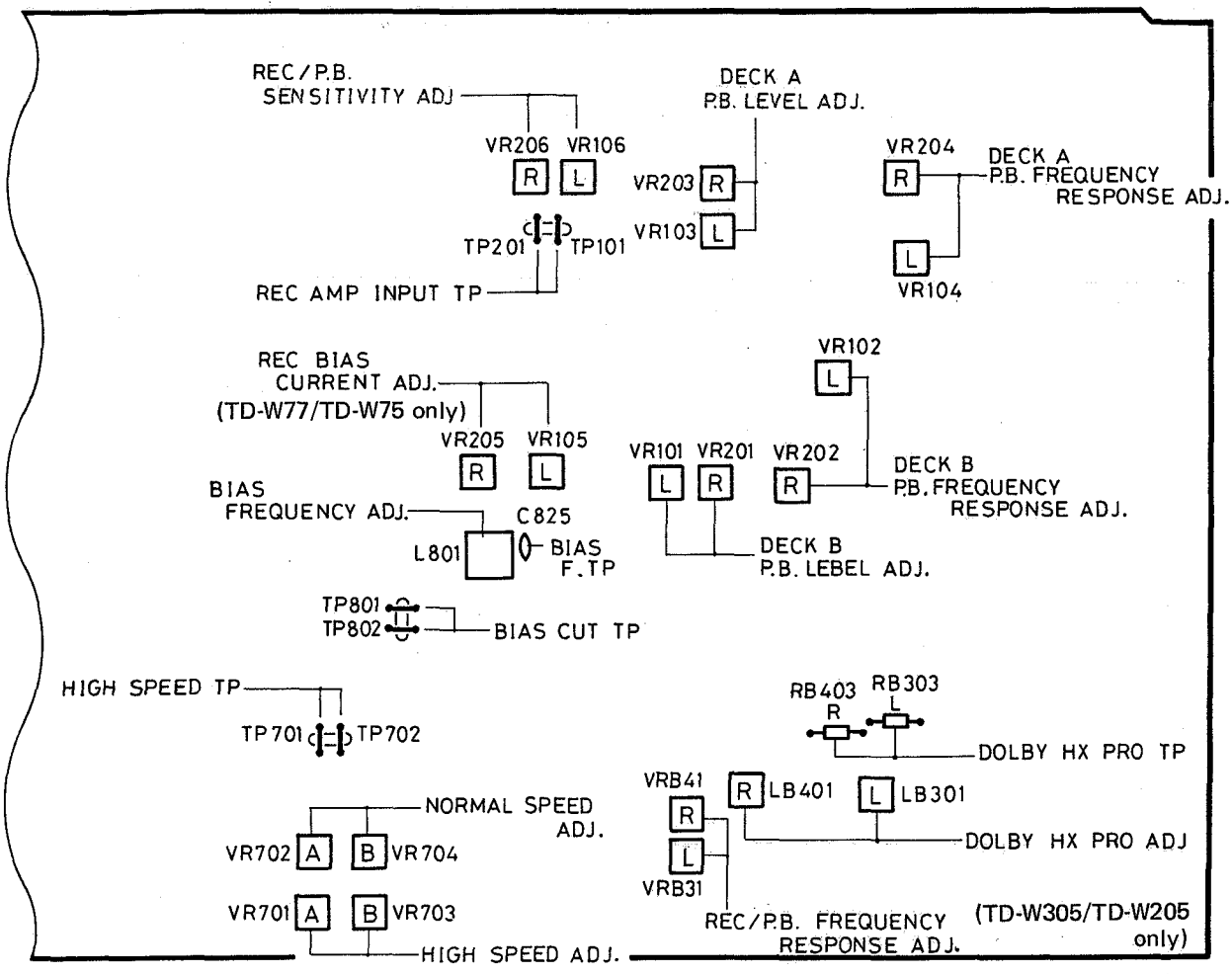


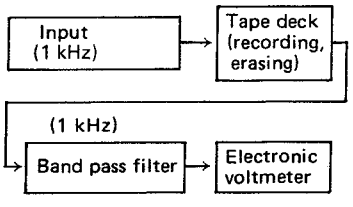
Fig. 2-2

4. Electrical circuit adjustment procedure

Perform the tape transport checks and head azimuth adjustment before following checks and adjustments.
Adjustment should be performed in the order of alignment steps.
In the steps marked with an asterisk (*), adjustment should be performed after replacing the heads.
Perform this adjustment with the NR switch set to OFF.

Step	Item	Check and Adjustment			
1	Checking DOLBY circuit (Rec mode) (BIAS - CUT)			Input signal (Frequency, level)	Output raise value, deviation value
		Signal input: LINE IN Cal. level: 400 Hz, −8 dBs Output terminal: NR. TP ICA01 (21) & (22)	DOLBY B (Rec)	1 kHz, Cal. −40 dB	+5.7 dB ± 2 dB
				5 kHz, Cal. −20 dB	+3.5 dB ± 1.5 dB
				1 kHz, Cal.	0 dB $^{+0.5}_{-1.0}$ dB
			DOLBY C (Rec)	1 kHz, Cal. −40 dB	+16.2 dB $^{+3}_{-2}$ dB
				5 kHz, Cal. −20 dB	+2.9 dB ± 2.5 dB
				1 kHz, Cal.	0 dB ± 1 dB

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
*2	Playback level adjustment	Play back VTT724, then confirm that the level at LINE OUT is −8 dBs ± 0.5 dB. Adjust VR101, VR201 and VR103, VR203 so that LINE OUT level becomes −8 dBs.	Deck [B] L : VR101 R : VR201 Deck [A] L : VR103 R : VR203	−8 dBs ± 0.5 dB	When the head is replaced, adjust playback gain level. Headphone output: −24 ± 2 dBs
*3	Playback frequency response adjustment	Play back TMT735 test tape, and adjust VR102, VR202 (deck [B]) and VR104, VR204 (deck [A]) so that deviation of 12.5 kHz to that of 1 kHz is 0.5 ± 0.5 dB. Then, play back VTT739 test tape to confirm that deviation of 63 Hz to 1 kHz is +2 ± 3 dB.	Deck [B] L : VR102 R : VR202 Deck [A] L : VR104 R : VR204	0.5 ± 0.5 dB	
*4	Bias frequency adjustment	Connect a frequency counter to the body of C825 and adjust L801 so that the counter reads 95 kHz.	Deck [B] L801	95 kHz ± 1 kHz	
*5	Slave oscillation (HX PRO) adjustment	This step must be performed after the bias frequency adjustment. Load a metal tape and set the deck to the recording mode. Adjust LB301 and LB401 to minimize respective voltages of both sides of RB303 and RB403.	Deck [B] L-ch: LB301 R-ch: LB401		

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
*6	REC/PB frequency response adjustment	This step must be performed after the slave oscillation adjustment. Record the 1 kHz and 12.5 kHz signals at the level of −20 dB (20 dB lower than the reference level). Playing back the recorded signals, adjust VRB31 and VRB41 so that the level of the 12.5 kHz signal is 0 ± 0.5 dB to the level of the 1 kHz signal.	Deck [B] L-ch: VRB31 R-ch: VRB41	12.5 kHz level: 0 ± 0.5 dB higher than the 1 kHz level.	Normal tape. Adjust VRs to flatten levels of the 1 kHz and 12.5 kHz signals basically.
*7	Recording level adjustment	1) Apply a 1 kHz signal to the LINE IN terminals, record a 1 kHz signal at −20 dBs input for both (L and R) channels on a normal tape. 2) Play back the recorded part, and adjust the recording level controls so that LINE OUT terminal level becomes −8 dBs. Then adjust VR106 and VR206 so that LINE OUT terminal level becomes −8 dBs.	Deck [B] L : VR106 R : VR206	Normal: −8 ± 0.5 dBs CrO_2/Metal: −8 ± 2 dBs	NR switch : Off TAPE switch : Normal
*8	Checking record/ playback distortion	1) Record a 1 kHz, −20 dBs signal to LINE IN terminals. 2) Play back the recorded part. Check the output with a distortion meter to see if the value conforms to the standard value.		Normal tape: Less than 2% CrO_2 tape: Less than 3% Metal tape: Less than 2% (THD)	Be sure to perform this checking following bias current and recording level checking.
9	Checking signal to noise ratio in recording/ playback	1) Record a 1 kHz, −20 dBs signal. Stop the input by disconnecting from the terminal to perform non-signal recording. 2) Play back the recorded part. Measure the −8 dBs recording output and the non-signal recording output for comparison using an electronic voltmeter. Check to see if the value conforms to the standard value.		Normal, CrO_2 & Metal tapes: More than 42 dB	Apply an input level to LINE IN terminals with the recording level controls set to maximum so that the peak level indicator reads 0 dB.
10	Checking erasing coefficient	1) Apply a 1 kHz, −20 dBs signal to the LINE IN terminals. 2) Perform recording with the signal enhanced by 20 dB. 3) Erase a part of the recording. 4) Measure the output difference between the erased part and non-erased part to compare with an electronic voltmeter.		More than 55 dB	For the measurement using a metal tape, connect a band pass filter between the deck and the electronic voltmeter. 

3 Block Diagram

Refer to the waveforms just as standard for adjustment in servicing.

- **Measuring condition:**
  Input frequency/level : 1 kHz / −66 dB (TD-W304/W305) for −8 dBs at LINE OUT
  Playback level : VTT724 test tape is played back and inputted through HEAD IN connector after the level is adjusted to be −8 dBs at LINE OUT.
  Recording level : Bias cut before measurement
  Adjustment of semifixed resistor is confirmed after recording level adjustment.
  Input volume is set to MAX. position.
  Headphone output : Measured without load
- **Measurement manner**
  Playback : As standard, HEAD IN signal is measured at test points.
  Recording: As standard, LINE IN signal is measured at test points.
- **Usage of measured value** : For inspection of existence of signal at specified points of each amp. in a mode other than playback or recording.

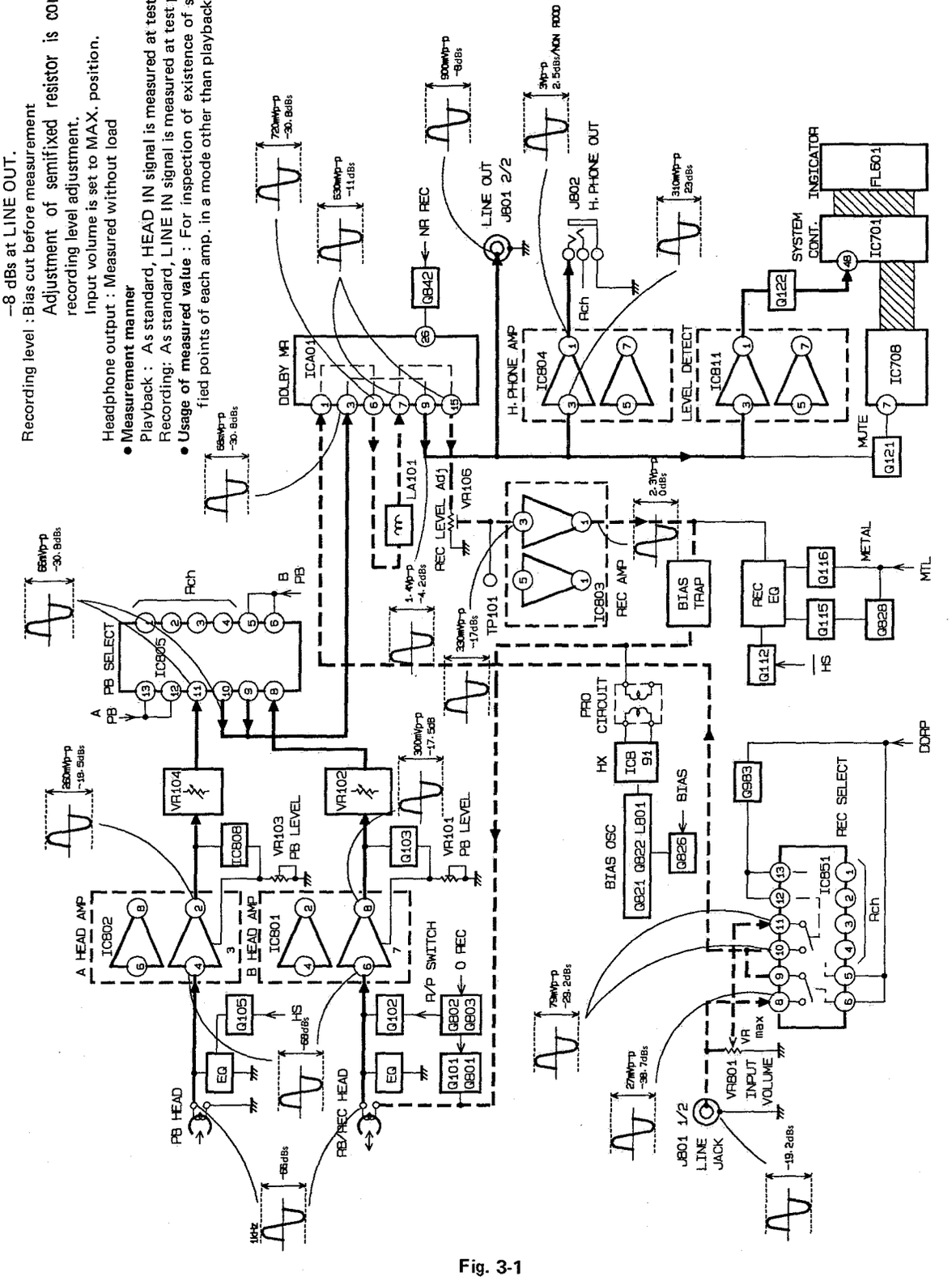


Fig. 3-1

• Main Board Parts List

⚠	REF.	PARTS NO.	PARTS NAME
	CA101	QFN41HJ-222	M CAPACITOR
	CA102	QFN41HJ-222	M CAPACITOR
	CA103	QFN41HJ-222	M CAPACITOR
	CA104	QEN41EM-475	NP.E.CAPACITOR
	CA105	QETC1HM-104ZN	E CAPACITOR
	CA106	QETC1HM-104ZN	E CAPACITOR
	CA107	QEN41EM-475	NP.E.CAPACITOR
	CA201	QFN41HJ-222	M CAPACITOR
	CA202	QFN41HJ-222	M CAPACITOR
	CA203	QFN41HJ-222	M CAPACITOR
	CA204	QEN41EM-475	NP.E.CAPACITOR
	CA205	QETC1HM-104ZN	E CAPACITOR
	CA206	QETC1HM-104ZN	E CAPACITOR
	CA207	QEN41EM-475	NP.E.CAPACITOR
	CA208	QCS11HJ-100	C.CAPACITOR
	CA801	QETC1CM-107ZN	E.CAPACITOR
	CA802	QETC1AM-477ZN	E CAPACITOR
	CA804	QETC1EM-226ZN	E CAPACITOR
	CB301	QFP32AJ-561ZM	PP CAPACITOR
	CB302	QCS11HJ-101	C.CAPACITOR
	CB303	QCS11HJ-561	C CAPACITOR
	CB304	QCC11EM-103	C CAPACITOR
	CB305	QFV71HJ-393ZM	TF.CAPACITOR
	CB306	QCC11EM-223	C CAPACITOR
	CB307	QETC1EM-106ZN	E CAPACITOR
	CB401	QFP32AJ-561ZM	PP CAPACITOR
	CB402	QCS11HJ-101	C.CAPACITOR
	CB403	QCS11HJ-561	C CAPACITOR
	CB404	QCC11EM-103	C CAPACITOR
	CB405	QFV71HJ-393ZM	TF.CAPACITOR
	CB406	QCC11EM-223	C CAPACITOR
	CB407	QETC1EM-106ZN	E CAPACITOR
	CB901	QETC1AM-476ZN	E CAPACITOR
	CB902	QETC1AM-476ZN	E CAPACITOR
	CB903	QCS11HJ-100	C CAPACITOR
	CB905	QETC1EM-106ZN	E CAPACITOR
	CF701	EFO-GC6004T5	CERA LOCK
	CN602	VMC0161-024	CONNECTOR
	CN705	VMC0166-004Z	CONNECTOR
	CN710	VMC0166-004Z	CONNECTOR
	CN711	VMC0166-003Z	CONNECTOR
	CN714	VMC0166-003Z	CONNECTOR
	CN716	VMC0166-003Z	CONNECTOR
	CN717	VMC0166-003Z	CONNECTOR
	CN801	QMV5011-007	CONNECTOR
	CN802	QMV5011-003	CONNECTOR
	CN811	VMC0166-004Z	CONNECTOR
	CN813	VMC0166-005Z	CONNECTOR
	CN815	VMC0166-004Z	CONNECTOR
	CN816	VMC0166-003Z	CONNECTOR
	CN901	VMC0107-005	CONNECTOR
	CN902	VMC0166-003Z	CONNECTOR
	CN903	VMC0166-003Z	CONNECTOR
	C101	QCY41HK-102	C CAPACITOR
	C104	QCS11HJ-151	C.CAPACITOR
	C106	QFV41HJ-103	TF.CAPACITOR
	C107	QETC1AM-107ZN	E CAPACITOR
	C108	QETC1HM-475ZN	E CAPACITOR
	C109	QCY41HK-152	C CAPACITOR
	C111	QCS11HJ-471	C CAPACITOR
	C112	QCBB1HK-471Y	C CAPACITOR
	C114	QCS11HJ-151	C.CAPACITOR
	C116	QFV41HJ-103	TF.CAPACITOR
	C117	QETC1AM-107ZN	E CAPACITOR
	C118	QETC1HM-475ZN	E CAPACITOR
	C119	QCY41HK-152	C CAPACITOR
	C131	QETC1HM-105ZN	E CAPACITOR
	C141	QCS11HJ-330	C.CAPACITOR
	C142	QETC1HM-474ZN	E CAPACITOR
	C143	QCS11HJ-471	C CAPACITOR

⚠	REF.	PARTS NO.	PARTS NAME
	C144	QCY41HK-682	C CAPACITOR
	C145	QFN41HJ-682	M CAPACITOR
	C146	QFV41HJ-123	TF CAPACITOR
	C147	QCS32HJ-151ZV	C.CAPACITOR
	C149	QETC1HM-105ZN	E CAPACITOR
	C151	QCC11EM-333	C CAPACITOR
	C152	QCC11EM-104	C CAPACITOR
	C153	QCC11EM-333	C CAPACITOR
	C154	QCC31EM-563ZV	C.CAPACITOR
	C155	QCC11EM-153	C.CAPACITOR
	C161	QETC1EM-106ZN	E CAPACITOR
	C201	QCY41HK-102	C CAPACITOR
	C204	QCS11HJ-151	C.CAPACITOR
	C206	QFV41HJ-103	TF.CAPACITOR
	C207	QETC1AM-107ZN	E CAPACITOR
	C208	QETC1HM-475ZN	E CAPACITOR
	C209	QCY41HK-152	C CAPACITOR
	C211	QCS11HJ-471	C CAPACITOR
	C212	QCBB1HK-471Y	C CAPACITOR
	C214	QCS11HJ-151	C.CAPACITOR
	C216	QFV41HJ-103	TF.CAPACITOR
	C217	QETC1AM-107ZN	E CAPACITOR
	C218	QETC1HM-475ZN	E CAPACITOR
	C219	QCY41HK-152	C CAPACITOR
	C231	QETC1HM-105ZN	E CAPACITOR
	C241	QCS11HJ-330	C.CAPACITOR
	C242	QETC1HM-474ZN	E CAPACITOR
	C243	QCS11HJ-471	C CAPACITOR
	C244	QCY41HK-682	C CAPACITOR
	C245	QFN41HJ-682	M CAPACITOR
	C246	QFV41HJ-123	TF CAPACITOR
	C247	QCS32HJ-151ZV	C.CAPACITOR
	C249	QETC1HM-105ZN	E CAPACITOR
	C251	QCC11EM-333	C CAPACITOR
	C252	QCC11EM-104	C CAPACITOR
	C253	QCC11EM-333	C CAPACITOR
	C254	QCC31EM-563ZV	C.CAPACITOR
	C255	QCC11EM-153	C.CAPACITOR
	C261	QETC1EM-106ZN	E CAPACITOR
	C701	QCC11EM-104	C CAPACITOR
	C703	QCC11EM-473	C CAPACITOR
	C706	QETC1HM-224ZN	E CAPACITOR
	C801	QETC1AM-477ZN	E CAPACITOR
	C802	QCF11HP-103	C CAPACITOR
	C803	QCF11HP-103	C CAPACITOR
	C806	QCF11HP-103	C CAPACITOR
	C807	QCF11HP-103	C CAPACITOR
	C816	QCF11HP-103	C CAPACITOR
	C817	QCF11HP-103	C CAPACITOR
	C821	QFP32AJ-103ZM	PP CAPACITOR
	C822	QETC1EM-476ZN	E.CAPACITOR
	C823	QFV41HJ-223	TF CAPACITOR
	C824	QCY41HK-102	C CAPACITOR
	C825	QCY41HK-152	C CAPACITOR
	C826	QCY41HK-152	C CAPACITOR
	C827	QETC1HM-475ZN	E CAPACITOR
	C828	QETC1CM-107ZN	E.CAPACITOR
	C829	QETC1AM-107ZN	E CAPACITOR
	C831	QETC1HM-105ZN	E CAPACITOR
	C832	QETC1EM-476ZN	E.CAPACITOR
	C851	QCC11EM-104	C CAPACITOR
	C901	QCF11HP-103	C CAPACITOR
	C902	QCF11HP-103	C CAPACITOR
	C903	QETB1EM-228N	E.CAPACITOR
	C904	QETB1EM-338N	E CAPACITOR
	C905	QETC1EM-476ZN	E.CAPACITOR
	C907	QETC1EM-226ZN	E CAPACITOR
	C908	QETC1AM-107ZN	E CAPACITOR
	C909	QETC1AM-107ZN	E CAPACITOR
	C910	QETC1CM-107ZN	E.CAPACITOR

⚠	REF.	PARTS NO.	PARTS NAME
	C911	QETB1CM-688N	E.CAPACITOR
	C912	QETC1AM-107ZN	E CAPACITOR
	C913	QETC1AM-107ZN	E CAPACITOR
	C914	QETB1EM-337N	E.CAPACITOR
	C915	QETB1VM-227N	E CAPACITOR
	C916	QETC1EM-107ZN	E.CAPACITOR
	C917	QETC1AM-107ZN	E CAPACITOR
	C951	QETC1AM-107ZN	E CAPACITOR
	C952	QETC1AM-107ZN	E CAPACITOR
	DB901	1SS133	DIODE
	DB902	1SS133	DIODE
	D101	1SS133	DIODE
	D201	1SS133	DIODE
	D709	1SS133	DIODE
	D710	1SS133	DIODE
	D711	1SS133	DIODE
	D712	1SS133	DIODE
	D713	1SS133	DIODE
	D714	1SS133	DIODE
	D715	1SS133	DIODE
	D716	1SS133	DIODE
	D717	1SS133	DIODE
	D718	1SS133	DIODE
	D719	1SS133	DIODE
	D720	1SS133	DIODE
	D721	1SS133	DIODE
	D722	1SS133	DIODE
	D724	1SS133	DIODE
	D725	1SS133	DIODE
	D726	1SS133	DIODE
	D727	1SS133	DIODE
	D731	1SS133	DIODE
	D741	1SS133	DIODE
	D742	1SS133	DIODE
	D743	1SS133	DIODE
	D744	1SS133	DIODE
	D801	1SS133	DIODE
	D802	1SS133	DIODE
	D803	1SS133	DIODE
	D804	1SS133	DIODE
	D805	1SS133	DIODE
	D813	1SS133	DIODE
	D814	1SS133	DIODE
	D815	1SS133	DIODE
	D816	1SS133	DIODE
⚠	D901	1SR35-100	SI DIODE
⚠	D902	1SR35-100	SI DIODE
⚠	D903	1SR35-100	SI DIODE
⚠	D904	1SR35-100	SI DIODE
	D906	MTZ12A	ZENER DIODE
	D907	MTZ5.6C	ZENER DIODE
⚠	D908	1SR35-100	SI DIODE
⚠	D909	1SR35-100	SI DIODE
	D910	MTZ24C	ZENER DIODE
	D951	MTZ6.2C	Z.DIODE
	ICA01	HA12142NT	DOLBY B C IC
	ICB91	UPC1297CA	I C
	IC701	MB88514B-1366T	IC
	IC702	BA6218	IC
	IC703	BA6218	IC
	IC704	TA8409S	IC
	IC705	TA8409S	IC
	IC708	M50253P	IC
	IC801	AN6557F	IC
	IC802	AN6557F	IC
	IC803	BA15218N	IC
	IC805	BU4066B	IC
	IC808	BU4066B	IC
	IC811	BA15218N	IC
	IC814	BU4066B	IC

⚠	REF.	PARTS NO.	PARTS NAME
	IC851	BU4066B	IC
	IC901	AN78N07	I.C
	J701	QMS3533-001	JACK
	J801	EMN00TV-402A	PIN JACK
	LA101	VQZ0034-002	MPX FILTER
	LA201	VQZ0034-002	MPX FILTER
	LB301	VQH7001-021	OSC COIL(BIAS)
	LB401	VQH7001-021	OSC COIL(BIAS)
	L102	VQP0001-562	INDUCTOR
	L103	VQP0001-183	INDUCTOR
	L202	VQP0001-562	INDUCTOR
	L203	VQP0001-183	INDUCTOR
	L801	VQH1008-031	OSC COIL(BIAS)
	L802	VQP0001-102S	INDUCTOR
	Q101	2SC1845(E,U)	TRANSISTOR
	Q102	2SC945L(P,K)	TRANSISTOR
	Q103	2SK301(Q,R)	FET
	Q105	AA1F4M	TRANSISTOR
	Q111	2SC2001(L,K)	TRANSISTOR
	Q112	AA1F4M	TRANSISTOR
	Q115	2SC945L(P,K)	TRANSISTOR
	Q116	2SC945L(P,K)	TRANSISTOR
	Q121	2SC2001(L,K)	TRANSISTOR
	Q122	2SC945L(P,K)	TRANSISTOR
	Q201	2SC1845(E,U)	TRANSISTOR
	Q202	2SC945L(P,K)	TRANSISTOR
	Q203	2SK301(Q,R)	FET
	Q205	AA1F4M	TRANSISTOR
	Q211	2SC2001(L,K)	TRANSISTOR
	Q212	AA1F4M	TRANSISTOR
	Q215	2SC945L(P,K)	TRANSISTOR
	Q216	2SC945L(P,K)	TRANSISTOR
	Q221	2SC2001(L,K)	TRANSISTOR
	Q222	2SC945L(P,K)	TRANSISTOR
	Q301	2SC945L(P,K)	TRANSISTOR
	Q401	2SC945L(P,K)	TRANSISTOR
	Q701	AA1F4M	TRANSISTOR
	Q702	AA1F4M	TRANSISTOR
	Q703	AA1F4M	TRANSISTOR
	Q704	AA1F4M	TRANSISTOR
	Q705	AA1F4M	TRANSISTOR
	Q706	AA1F4M	TRANSISTOR
	Q707	2SC945L(P,K)	TRANSISTOR
	Q708	2SC945L(P,K)	TRANSISTOR
	Q709	2SC945L(P,K)	TRANSISTOR
	Q710	2SA733A(P,K)	TRANSISTOR
	Q711	2SC945L(P,K)	TRANSISTOR
	Q721	2SA733A(P,K)	TRANSISTOR
	Q722	2SA733A(P,K)	TRANSISTOR
	Q723	2SA733A(P,K)	TRANSISTOR
	Q724	2SA733A(P,K)	TRANSISTOR
	Q725	AA1F4M	TRANSISTOR
	Q726	2SC945L(P,K)	TRANSISTOR
	Q731	AA1F4M	TRANSISTOR
	Q732	AA1F4M	TRANSISTOR
	Q801	2SC1845(E,U)	TRANSISTOR
	Q802	2SA992(F,E,U)	TRANSISTOR
	Q803	AA1F4M	TRANSISTOR
	Q804	AA1F4M	TRANSISTOR
	Q811	AN1F4M	TRANSISTOR
	Q812	2SA733A(P,K)	TRANSISTOR
	Q821	2SC2001(L,K)	TRANSISTOR
	Q822	2SC2001(L,K)	TRANSISTOR
	Q826	2SC2001(L,K)	TRANSISTOR
	Q827	2SA733A(P,K)	TRANSISTOR
	Q828	2SC945L(P,K)	TRANSISTOR
	Q841	AA1F4M	TRANSISTOR
	Q842	AN1F4M	TRANSISTOR
⚠	Q903	2SB772(Q,P)	TRANSISTOR
⚠	Q904	2SA733A(P,K)	TRANSISTOR

7 Exploded View of Enclosure Assembly

• Enclosure Assembly Parts List

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	22,24,25	**ZCTDW305K-FTN**	**FRONT PANEL ASS'Y**		**1**
	22,24,25	**ZCTDW305J-FTN**	**FRONT PANEL ASS'Y**	**J VERSION**	**1**
	44,46	**ZCTDW305K-CH-A**	**CASSETTE HOLDER ASS'Y**	**DECK A**	**1**
	45,46	**ZCTDW305K-CH-B**	**CASSETTE HOLDER ASS'Y**	**DECK B**	**1**
	1	VKL1333-001	CHASSIS BASE		1
⚠	2	VTP52A5-011F	POWER TRANS	C/J VERSION	1
⚠		VTP52G5-011F	POWER TRANS	U VERSION	1
⚠		VTP52Z5-011F	POWER TRANS	A/E/G VERSION	1
⚠		VTP52Z5-011FBS	POWER TRANS	B VERSION	1
	3	SBST3006Z	TH.TAP.SCREW	FOR POWER TRANS	4
	4	VJC2410-001	REAR PANEL		1
		VJC2410-015	REAR PANEL	U VERSION	1
⚠	5	QMP1200-200	POWER CORD	C/J VERSION	1
⚠		QMP2560-200	POWER CORD	A VERSION	1
⚠		QMP3900-200	POWER CORD	E/G VERSION	1
⚠		QMP7380-200	POWER CORD	U VERSION	1
⚠		QMP9017-008BS	POWER CORD	B VERSION	1
⚠	6	QHS3771-108	CORD STOPPER		1
⚠		QHS3771-108BS	CORD STOPPER	B VERSION	1
	7	VKS5011-001	VOLTAGE CONTACT	U VERSION	1
	8	SBSF3008M	SCREW	V.SELECTOR	2
	9	SBSF3008M	SCREW	HEAT SINK	2
	10	SBSF3008M	SCREW	PIN JACK	1
	11	SBSF3008M	SCREW	DCS JACK	1
	12	SBST3006M	TH.TAP.SCREW	REAR+CHASSIS	3
	13	GBST3006Z	SCREW	MAIN PWB	4
	14	VMA4497-001	SHIELD CASE		1
	15	VKY4628-002			2
	16	VMA4499-001	SHIELD PLATE	B MECHA	1
	17	SPST2605Z	SCREW		1
⚠	18	QMF51A2-R80	FUSE	F901/F902 A/E/G/U	2
⚠		QMF51E2-R80BS	FUSE	F901/F902 B VERSI	2
⚠	19	QMF51A2-R20	FUSE	F903 U VERSION	1
	20	VND4003-032	FUSE LABEL		1
	21	VKZ4001-111	WIRE HOLDER		1
	22	VJC1963-016	FRONT PANEL		1
		VJC1963-017UL	FRONT PANEL	FOR C/J VERSION	1
	23	VJD5338-001	FITTING		1
	24	E72968-001	JVC MARK		1
	25	VJD4024-001	REFLECTION PLAT		2
	26	SSSF3012Z	SCREW	MECHA+F.PANEL	4
	27	SBST3006M	TH.TAP.SCREW	F.PANEL+CHASSIS	7
	28	SBSF3008Z	SCREW	POWER SW	2
	29	SBSF2608Z	SCREW	NR SW	1
	30	SBSF2608Z	SCREW	SLIDE SW	1
	31	SBSF2608Z	SCREW	H.PHONE JACK ASS'	1
	32	SBSF2608Z	SCREW	INPUT VOLUME	2
	33	SBSF2608Z	SCREW	F.L.HOLDER	2
	34	VYH7434-001	STOPPER	F.L.HOLDER	1
	36	VXP3408-009	MECHA BUTTON		1
	37	VXP3408-010	MECHA BUTTON		1
	38	VXP3409-001	MECHA BUTTON		1
	39	SBSF2608Z	SCREW	BUTTON+F.PANEL	6
	40	VXP5019-001	PUSH BUTTON	F.L.HOLDER	1
	41	SBSF2608Z	SCREW	BUTTON HOLDER	2
	42	VKM3474-008	MECHA BRACKET		2
	43	SSST3010Z	SCREW	M.BRACKET+MECHA	4
	44	VJT2260-003	CASSETTE HOLDER		1
	45	VJT2260-004	CASSETTE HOLDER		1
	46	VKY4180-001	CASSETTE SPRING		4
	47	E305654-003	DUMPER ASS'Y		2
	48	SBSF3010Z	SCREW	DUMPER	2
	50	VKW4963-003	TORSION SPRING	A CASSETTE HOLDER	1
	51	VKW4963-004	TORSION SPRING	B CASSETTE HOLDER	1
	52	VKM3476-001	LOCK LEVER (L)	A MECHA	1
	53	VKM3475-001	LOCK LEVER (R)	B MECHA	1
	54	VYSS1R2-042	SPACER	LOCK LEVER	2
	55	VKW3006-217	TORSHION SPRING		2
	56	VYH7424-001	LOCK PLATE		2
	57	VKL6993-001	JACK BRACKET	H.P.JACK	1
	58	VYSS1R2-031	SPACER		1
	59	VKL6752-001	SNAP PLATE		1

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	61	VXP5032-001	PUSH BUTTON	POWER	1
	62	VJT2261-001	CASSETTE LID		1
	63	VJT2261-002	CASSETTE LID		1
	64	VXP4813-002	PUSH BUTTON	EJECT	2
	65	VKW3001-077	C.SPRING		2
	66	VKL6990-001	REMOTE ARM		1
	67	VKL6990-002	REMOTE ARM		1
	68	VYH3668-001	BUTTON HOLDER		1
	69	VJK4376-003	FINDER		1
	70	VXL4335-005	KNOB	INPUT VOLUME	1
	71	VKW4901-001	KNOB SPRING		1
	72	VJC1964-001	TOP COVER		1
	73	VKZ4614-001	SPECIAL SCREW		4
	74	SBST3006M	TH.TAP.SCREW		2
	75	VJF4039-00A	FOOT ASS'Y		2
	76	SBST3008Z	TH.TAP.SCREW	FOOT+CHASSIS	4
	77	E47227-036	FOOT		2
	78	VYN2277-002PA	NAME PLATE	B VERSION	1
		VYN2277-003PA	NAME PLATE	A VERSION	1
		VYN2277-005PA	NAME PLATE	E VERSION	1
		VYN2277-006PA	NAME PLATE	J VERSION	1
		VYN2277-007PA	NAME PLATE	U VERSION	1
		VYN2277-008PA	NAME PLATE	G VERSION	1
	79	VND4113-001	G.CAUTION LABEL	B/J VERSION	1
	80	VND4205-004	CAUTION LABEL	B VERSION ONLY	1
	81	QZL1007-001	BEAB LABEL	B VERSION ONLY	1
	82	V04062-001	CONTI.PLUG	U VERSION	1
	83	T44362-001	CSA LABEL	C VERSION	1
	84	VND4037-002	F MARK	G VERSION	1
	85	VYH3669-001	FL HOLDER		1
⚠	86	VMH4011-002	HEAT SINK	IC901,Q903,Q905	1
	87	DPSP3008Z	SCREW	IC901,Q903,Q905	3

- **Parts Comparison Table between TD-W305TN and TD-W304BK**
  (TD-W305TN : Titanium color, TD-W304BK : Black)

Ref NO.	PARTS NAME	TD-W305 PARTS NO.	TD-W304 PARTS NO.	
4	REAR PANEL	VJC2410-015	VJC2410-016	
4	REAR PANEL	VJC2410-002	VJC2410-005	U VERSION
22	FRONT PANEL	VJC1963-016	VJC1963-023	
22	FRONT PANEL	VJC1963-017UL	VJC1963-024UL	C/J VERSION
36	MECHA BUTTON	VXP3408-009	VXP3408-011	
37	MECHA BUTTON	VXP3408-010	VXP3408-012	
38	MECHA BUTTON	VXP3409-001	VXP3409-002	
40	PUSH BUTTON	VXP5019-001	VXP5019-002	
51	PUSH BUTTON	VXP5032-001	VXP5032-002	
62	CASSETTE LID	VJT2261-001	VJT2261-009	
63	CASSETTE LID	VJT2261-002	VJT2261-010	
64	PUSH BUTTON	VXP4813-002	VXP4813-001	
69	FINDER	VJK4376-003	VJK4376-004	
70	KNOB	VXL4335-005	VXL4335-002	
72	TOP COVER	VJC1964-001	VJC1964-002	
75	FOOT ASS'Y	VJF4039-00A	VJF4039-00B	
78	NAME PLATE	VYN2277-003PA	V/N2279-003PA	A VERSION
78	NAME PLATE	VYN2277-002PA	V/N2279-002PA	B VERSION
78	NAME PLATE	VYN2277-004PA	V/N2279-004PA	C VERSION
78	NAME PLATE	VYN2277-005PA	V/N2279-005PA	E VERSION
78	NAME PLATE	VYN2277-008PA	V/N2279-008PA	G VERSION
78	NAME PLATE	VYN2277-006PA	V/N2279-006PA	J VERSION
78	NAME PLATE	VYN2277-007PA	V/N2279-007PA	U VERSION
22, 24, 25	FRONT PANEL ASS'Y	ZCTD W305K-FTN	ZCTD W304K-FBK	
22, 24, 25	FRONT PANEL ASS'Y	ZCTD W305J-FTN	ZCTD W304J-FBK	J VERSION

9 Packing

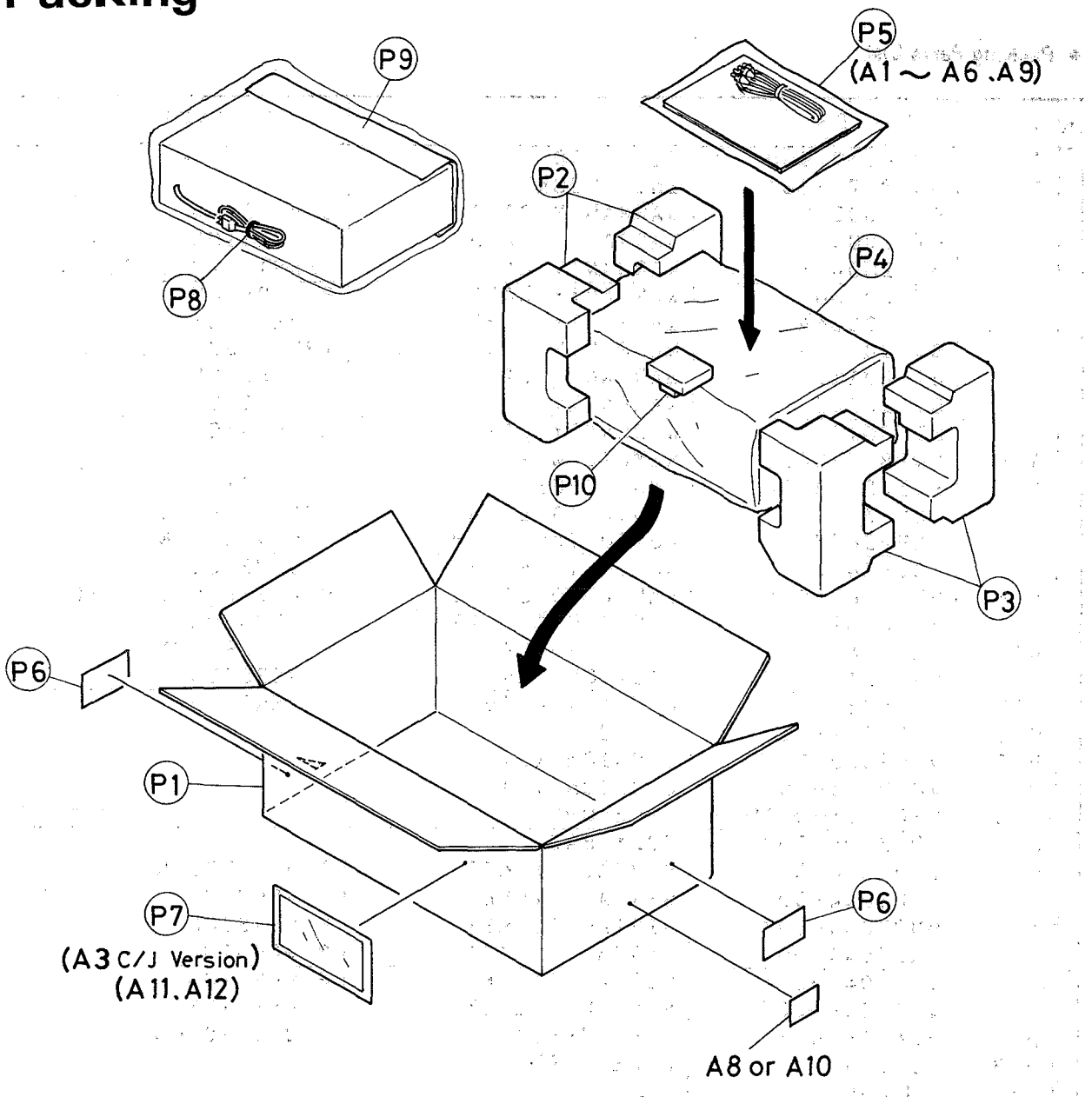


Fig. 9-1

● Packing Parts List

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	A 1	VMP0039-00D	PIN CORD		1
	A 2	VNN2277-661	INST BOOK		1
	A 3	BT-20025K	WARRANTY CARD	C VERSION	1
		BT-20044G	WARRANTY CARD	J VERSION	1
		BT-20047E	WARRANTY CARD	(EES) J/U VERSION	1
		BT-20060	WARRANTY CARD	B VERSION	1
		BT-20066A	WARRANTY CARD	B VERSION	1
		BT-20108A	WARRANTY CARD	(PX) J/U VERSION	1
		BT-20117	WARRANTY CARD	G VERSION	1
		BT-20122	WARRANTY CARD	A VERSION	1
		BT-20122-1	WARRANTY CARD	A VERSION	1
	A 4	EWP805-001E	REMOTE WIRE		1
	A 5	E43486-340A	INST.SHEET	B VERSION	1
	A 6	TCN-3379	AUDIO TAPE PAMP	B/E/G VERSION	1
		TCP-3428	AUDIO TAPE PAMP	A/U VERSION	1
		TCU-3492	AUDIO TAPE PAMP	C/J VERSION	1
	A 8	VND3069-015	EAN CORD LABEL	B/A/G/E/U VERSION	1
	A 9	BT-20071A	JVC CENTER LIST	C VERSION	1
	A10	VND3065-018	UPC CORD LABEL	C/J VERSION	1
	A11	VNC5311-203	CAUTION CARD	U VERSION	1
	A12	VNC5311-204	CAUTION CARD	U VERSION	1
	P 1	VPC2277-001	CARTON		1
	P 2	VPH2422-001	CUSHION (L)		1
	P 3	VPH2423-001	CUSHION (R)		1
	P 4	E300196-031B	ENVELOPE		1
	P 5	VPE3005-007	POLY BAG		1
	P 6	VND3044-001	SIRIAL TICKET	A/U VERSION	1
		VND3044-002	SERIAL TICKET	J VERSION	2
		VND3044-003	SIRIAL TICKET	E VERSION	1
		VND3044-004	SIRIAL TICKET	B VERSION	1
		VND3044-005	SIRIAL TICKET	G VERSION	1
		VND3044-006	SERIAL TICKET	C VERSION	2
	P 7	E66416-003	ENVELOPE	J/U VERSION	1
	P 8	Q04141H	WIRE CLAMP		1
	P 9	VPK3001-012	SHEET		1
	P10	VPH3218-001	CUSHION		1

JVC
VICTOR COMPANY OF JAPAN, LIMITED.
AUDIO PRODUCTS DIVISION MAEBASHI PLANT 10-1, 1-chome, Ohwatari-cho, Maebashi-city 371, Japan

Printed in Japan
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TD-W205TN
TD-W204BK A/B/C/E/G/J/U

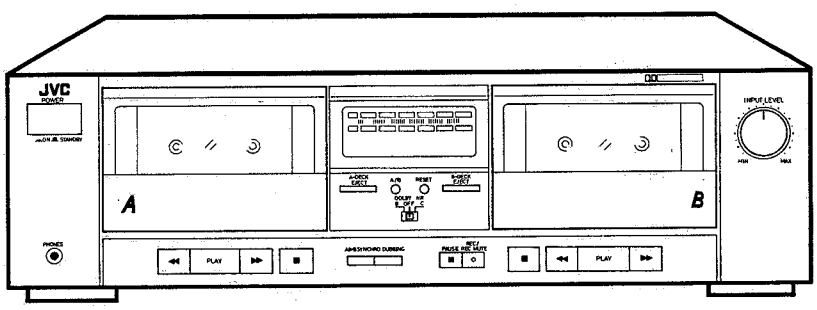
SERVICE MANUAL

STEREO DOUBLE CASSETTE DECK

No. 4325-2

TD-W205 and TD-W204 are designed and produced based on TD-W305TN and TD-W304BK respectively.

1. Exterior coloring of TD-W205TN is titanium color while TD-W204BK is black.
2. TD-W205TN and TD-W204BK are the same as TD-W305TN and TD-W304BK on the whole except the mechanism that is the 1-way type in TD-W205 and TD-W204.
3. For the following things of the TD-W205 series, refer to the service manual for TD-W305/ TD-W304.
   - Removal of Main Parts
   - Main Adjustment
   - Block Diagram
   - Wiring Connections
   - Location of Main Board Parts



Area Suffix	
A	Australia
B	U.K.
C	Canada
E	Continental Europe
G	Germany
J	U.S.A.
U	Other Areas

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Main Board Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME
	CA101	QFN41HJ-222	M CAPACITOR
	CA102	QFN41HJ-222	M CAPACITOR
	CA103	QFN41HJ-222	M CAPACITOR
	CA104	QEN41EM-475	NP.E.CAPACITOR
	CA105	QETC1HM-104ZN	E CAPACITOR
	CA106	QETC1HM-104ZN	E CAPACITOR
	CA107	QEN41EM-475	NP.E.CAPACITOR
	CA201	QFN41HJ-222	M CAPACITOR
	CA202	QFN41HJ-222	M CAPACITOR
	CA203	QFN41HJ-222	M CAPACITOR
	CA204	QEN41EM-475	NP.E.CAPACITOR
	CA205	QETC1HM-104ZN	E CAPACITOR
	CA206	QETC1HM-104ZN	E CAPACITOR
	CA207	QEN41EM-475	NP.E.CAPACITOR
	CA801	QETC1CM-107ZN	E.CAPACITOR
	CA802	QETC1AM-477ZN	E CAPACITOR
	CB301	QFP32AJ-561ZM	PP CAPACITOR
	CB302	QCS11HJ-101	C.CAPACITOR
	CB303	QCS11HJ-561	C CAPACITOR
	CB304	QCC11EM-103	C CAPACITOR
	CB305	QFV71HJ-393ZM	TF.CAPACITOR
	CB306	QCC11EM-223	C CAPACITOR
	CB307	QETC1EM-106ZN	E CAPACITOR
	CB401	QFP32AJ-561ZM	PP CAPACITOR
	CB402	QCS11HJ-101	C.CAPACITOR
	CB403	QCS11HJ-561	C CAPACITOR
	CB404	QCC11EM-103	C CAPACITOR
	CB405	QFV71HJ-393ZM	TF.CAPACITOR
	CB406	QCC11EM-223	C CAPACITOR
	CB407	QETC1EM-106ZN	E CAPACITOR
	CB901	QETC1AM-476ZN	E CAPACITOR
	CB902	QETC1AM-476ZN	E CAPACITOR
	CB903	QCS11HJ-100	C CAPACITOR
	CB905	QETC1EM-106ZN	E CAPACITOR
	CF701	EFO-GC6004T5	CERA LOCK
	CN602	VMC0161-024	CONNECTOR
	CN705	VMC0166-004Z	CONNECTOR
	CN710	VMC0166-004Z	CONNECTOR
	CN711	VMC0166-003Z	CONNECTOR
	CN716	VMC0166-003Z	CONNECTOR
	CN717	VMC0166-003Z	CONNECTOR
	CN801	QMV5011-007	CONNECTOR
	CN802	QMV5011-003	CONNECTOR
	CN811	VMC0166-004Z	CONNECTOR
	CN813	VMC0166-005Z	CONNECTOR
	CN815	VMC0166-004Z	CONNECTOR
	CN816	VMC0166-003Z	CONNECTOR
	CN901	VMC0107-005	CONNECTOR
	CN902	VMC0166-003Z	CONNECTOR
	CN903	VMC0166-003Z	CONNECTOR
	C101	QCY41HK-102	C CAPACITOR
	C104	QCS11HJ-151	C.CAPACITOR
	C106	QFV41HJ-103	TF.CAPACITOR
	C107	QETC1AM-107ZN	E CAPACITOR
	C108	QETC1HM-475ZN	E CAPACITOR
	C109	QCY41HK-152	C CAPACITOR
	C111	QCS11HJ-471	C CAPACITOR
	C112	QCBB1HK-471Y	C CAPACITOR
	C114	QCS11HJ-151	C.CAPACITOR
	C116	QFV41HJ-103	TF.CAPACITOR
	C117	QETC1AM-107ZN	E CAPACITOR
	C118	QETC1HM-475ZN	E CAPACITOR
	C119	QCY41HK-152	C CAPACITOR
	C131	QETC1HM-105ZN	E CAPACITOR
	C141	QCS11HJ-330	C.CAPACITOR
	C142	QETC1HM-474ZN	E CAPACITOR
	C143	QCS11HJ-471	C CAPACITOR
	C144	QCY41HK-682	C CAPACITOR
	C145	QFN41HJ-682	M CAPACITOR
	C146	QFV41HJ-123	TF CAPACITOR

⚠	REF.	PARTS NO.	PARTS NAME
	C147	QCS32HJ-151ZV	C.CAPACITOR
	C149	QETC1HM-105ZN	E CAPACITOR
	C151	QCC11EM-333	C CAPACITOR
	C152	QCC11EM-104	C CAPACITOR
	C153	QCC11EM-333	C CAPACITOR
	C154	QCC31EM-563ZV	C.CAPACITOR
	C155	QCC11EM-153	C.CAPACITOR
	C161	QETC1EM-106ZN	E CAPACITOR
	C201	QCY41HK-102	C CAPACITOR
	C204	QCS11HJ-151	C.CAPACITOR
	C206	QFV41HJ-103	TF.CAPACITOR
	C207	QETC1AM-107ZN	E CAPACITOR
	C208	QETC1HM-475ZN	E CAPACITOR
	C209	QCY41HK-152	C CAPACITOR
	C211	QCS11HJ-471	C CAPACITOR
	C212	QCBB1HK-471Y	C CAPACITOR
	C214	QCS11HJ-151	C.CAPACITOR
	C216	QFV41HJ-103	TF.CAPACITOR
	C217	QETC1AM-107ZN	E CAPACITOR
	C218	QETC1HM-475ZN	E CAPACITOR
	C219	QCY41HK-152	C CAPACITOR
	C231	QETC1HM-105ZN	E CAPACITOR
	C241	QCS11HJ-330	C.CAPACITOR
	C242	QETC1HM-474ZN	E CAPACITOR
	C243	QCS11HJ-471	C CAPACITOR
	C244	QCY41HK-682	C CAPACITOR
	C245	QFN41HJ-682	M CAPACITOR
	C246	QFV41HJ-123	TF CAPACITOR
	C247	QCS32HJ-151ZV	C.CAPACITOR
	C249	QETC1HM-105ZN	E CAPACITOR
	C251	QCC11EM-333	C CAPACITOR
	C252	QCC11EM-104	C CAPACITOR
	C253	QCC11EM-333	C CAPACITOR
	C254	QCC31EM-563ZV	C.CAPACITOR
	C255	QCC11EM-153	C.CAPACITOR
	C261	QETC1EM-106ZN	E CAPACITOR
	C701	QCC11EM-104	C CAPACITOR
	C703	QCC11EM-473	C CAPACITOR
	C706	QETC1HM-105ZM	E.CAPACITOR
	C707	QETC1HM-475ZN	E CAPACITOR
	C801	QETC1AM-477ZN	E CAPACITOR
	C802	QCF11HP-103	C CAPACITOR
	C803	QCF11HP-103	C CAPACITOR
	C806	QCF11HP-103	C CAPACITOR
	C807	QCF11HP-103	C CAPACITOR
	C816	QCF11HP-103	C CAPACITOR
	C817	QCF11HP-103	C CAPACITOR
	C821	QFP32AJ-103ZM	PP CAPACITOR
	C822	QETC1EM-476ZN	E.CAPACITOR
	C823	QFV41HJ-223	TF CAPACITOR
	C824	QCY41HK-102	C CAPACITOR
	C825	QCY41HK-152	C CAPACITOR
	C826	QCY41HK-152	C CAPACITOR
	C827	QETC1HM-475ZN	E CAPACITOR
	C828	QETC1CM-107ZN	E.CAPACITOR
	C829	QETC1AM-107ZN	E CAPACITOR
	C831	QETC1HM-105ZN	E CAPACITOR
	C832	QETC1EM-476ZN	E.CAPACITOR
	C851	QCC11EM-104	C CAPACITOR
	C901	QCF11HP-103	C CAPACITOR
	C902	QCF11HP-103	C CAPACITOR
	C903	QETB1EM-228N	E.CAPACITOR
	C904	QETB1EM-338N	E CAPACITOR
	C905	QETC1EM-476ZN	E.CAPACITOR
	C907	QETC1EM-226ZN	E CAPACITOR
	C908	QETC1AM-107ZN	E CAPACITOR
	C909	QETC1AM-107ZN	E CAPACITOR
	C910	QETC1CM-107ZN	E.CAPACITOR
	C911	QETC1CM-477ZN	E CAPACITOR
	C912	QETC1AM-107ZN	E CAPACITOR

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME
	C913	QETC1AM-107ZN	E CAPACITOR
	C914	QETB1EM-337N	E.CAPACITOR
	C915	QETB1VM-227N	E CAPACITOR
	C916	QETC1EM-107ZN	E.CAPACITOR
	C917	QETC1AM-107ZN	E CAPACITOR
	C951	QETC1AM-107ZN	E CAPACITOR
	C952	QETC1AM-107ZN	E CAPACITOR
	DB901	1SS133	DIODE
	DB902	1SS133	DIODE
	D101	1SS133	DIODE
	D201	1SS133	DIODE
	D709	1SS133	DIODE
	D710	1SS133	DIODE
	D711	1SS133	DIODE
	D712	1SS133	DIODE
	D713	1SS133	DIODE
	D714	1SS133	DIODE
	D715	1SS133	DIODE
	D716	1SS133	DIODE
	D717	1SS133	DIODE
	D718	1SS133	DIODE
	D719	1SS133	DIODE
	D720	1SS133	DIODE
	D721	1SS133	DIODE
	D722	1SS133	DIODE
	D725	1SS133	DIODE
	D726	1SS133	DIODE
	D727	1SS133	DIODE
	D731	1SS133	DIODE
	D741	1SS133	DIODE
	D742	1SS133	DIODE
	D743	1SS133	DIODE
	D744	1SS133	DIODE
	D801	1SS133	DIODE
	D802	1SS133	DIODE
	D803	1SS133	DIODE
	D804	1SS133	DIODE
	D805	1SS133	DIODE
	D813	1SS133	DIODE
	D814	1SS133	DIODE
	D815	1SS133	DIODE
	D816	1SS133	DIODE
⚠	D901	1SR35-100A	SI DIODE
⚠	D902	1SR35-100A	SI DIODE
⚠	D903	1SR35-100A	SI DIODE
⚠	D904	1SR35-100A	SI DIODE
	D906	MTZ12A	ZENER DIODE
	D907	MTZ5.6C	ZENER DIODE
⚠	D908	1SR35-100A	SI DIODE
⚠	D909	1SR35-100A	SI DIODE
	D910	MTZ24C	ZENER DIODE
	D951	MTZ6.2C	Z.DIODE
	ICA01	HA12142NT	DOLBY B C IC
	ICB91	UPC1297CA	I C
	IC701	MB88514B-1366T	IC
	IC702	BA6218	IC
	IC703	BA6218	IC
	IC704	TA8409S	IC
	IC705	TA8409S	IC
	IC708	M50253P	IC
	IC801	AN6557F	IC
	IC802	AN6557F	IC
	IC803	XRA15218N	IC
	IC805	BU4066B	IC
	IC808	BU4066B	IC
	IC811	XRA15218N	IC
	IC814	BU4066B	IC
	IC851	BU4066B	IC
	IC901	AN78N07	IC
	J701	QMS3533-001	JACK

⚠	REF.	PARTS NO.	PARTS NAME
	J801	EMN00TV-402A	PIN JACK
	LA101	VQZ0034-002	MPX FILTER
	LA201	VQZ0034-002	MPX FILTER
	LB301	VQH7001-021	OSC COIL(BIAS)
	LB401	VQH7001-021	OSC COIL(BIAS)
	L102	VQP0001-562	INDUCTOR
	L103	VQP0001-183	INDUCTOR
	L202	VQP0001-562	INDUCTOR
	L203	VQP0001-183	INDUCTOR
	L801	VQH1008-031	OSC COIL(BIAS)
	L802	VQP0001-102S	INDUCTOR
	Q101	2SC1845(E,U)	TRANSISTOR
	Q102	2SC945L(P,K)	TRANSISTOR
	Q103	2SK301(Q,R)	FET
	Q105	AA1F4M	TRANSISTOR
	Q111	2SC2001(L,K)	TRANSISTOR
	Q112	AA1F4M	TRANSISTOR
	Q115	2SC945L(P,K)	TRANSISTOR
	Q116	2SC945L(P,K)	TRANSISTOR
	Q121	2SC2001(L,K)	TRANSISTOR
	Q122	2SC945L(P,K)	TRANSISTOR
	Q201	2SC1845(E,U)	TRANSISTOR
	Q202	2SC945L(P,K)	TRANSISTOR
	Q203	2SK301(Q,R)	FET
	Q205	AA1F4M	TRANSISTOR
	Q211	2SC2001(L,K)	TRANSISTOR
	Q212	AA1F4M	TRANSISTOR
	Q215	2SC945L(P,K)	TRANSISTOR
	Q216	2SC945L(P,K)	TRANSISTOR
	Q221	2SC2001(L,K)	TRANSISTOR
	Q222	2SC945L(P,K)	TRANSISTOR
	Q301	2SC945L(P,K)	TRANSISTOR
	Q401	2SC945L(P,K)	TRANSISTOR
	Q701	AA1F4M	TRANSISTOR
	Q702	AA1F4M	TRANSISTOR
	Q703	AA1F4M	TRANSISTOR
	Q704	AA1F4M	TRANSISTOR
	Q705	AA1F4M	TRANSISTOR
	Q706	AA1F4M	TRANSISTOR
	Q707	2SC945L(P,K)	TRANSISTOR
	Q708	2SC945L(P,K)	TRANSISTOR
	Q709	2SC945L(P,K)	TRANSISTOR
	Q710	2SA733A(P,K)	TRANSISTOR
	Q711	2SC945L(P,K)	TRANSISTOR
	Q721	2SA733A(P,K)	TRANSISTOR
	Q722	2SA733A(P,K)	TRANSISTOR
	Q723	2SA733A(P,K)	TRANSISTOR
	Q724	2SA733A(P,K)	TRANSISTOR
	Q725	AA1F4M	TRANSISTOR
	Q726	2SC945L(P,K)	TRANSISTOR
	Q731	AA1F4M	TRANSISTOR
	Q732	AA1F4M	TRANSISTOR
	Q801	2SC1845(E,U)	TRANSISTOR
	Q802	2SA992(F,E,U)	TRANSISTOR
	Q803	AA1F4M	TRANSISTOR
	Q804	AA1F4M	TRANSISTOR
	Q811	AN1F4M	TRANSISTOR
	Q812	2SA733A(P,K)	TRANSISTOR
	Q821	2SC2001(L,K)	TRANSISTOR
	Q822	2SC2001(L,K)	TRANSISTOR
	Q826	2SC2001(L,K)	TRANSISTOR
	Q827	2SA733A(P,K)	TRANSISTOR
	Q828	2SC945L(P,K)	TRANSISTOR
	Q841	AA1F4M	TRANSISTOR
	Q842	AN1F4M	TRANSISTOR
⚠	Q903	2SB772(Q,P)	TRANSISTOR
⚠	Q904	2SA733A(P,K)	TRANSISTOR
⚠	Q905	2SD882(Q,P)	TRANSISTOR
	Q906	2SC2001(L,K)	TRANSISTOR
	Q907	2SA952(L,K)	TRANSISTOR

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME
	Q951	2SC2001(L,K)	TRANSISTOR
	Q981	AA1F4M	TRANSISTOR
	Q983	AA1F4M	TRANSISTOR
	RA101	QRD161J-222	CARBON RESISTOR
	RA102	QRD161J-562	CARBON RESISTOR
	RA103	QRD161J-222	CARBON RESISTOR
	RA104	QRD161J-561	CARBON RESISTOR
	RA201	QRD161J-222	CARBON RESISTOR
	RA202	QRD161J-562	CARBON RESISTOR
	RA203	QRD161J-222	CARBON RESISTOR
	RA204	QRD161J-561	CARBON RESISTOR
	RA801	QRD161J-100	CARBON RESISTOR
	RA802	QRD161J-100	CARBON RESISTOR
	RA803	QRD161J-183	CARBON RESISTOR
	RA805	QRD161J-153	CARBON RESISTOR
	RB301	QRD161J-274	CARBON RESISTOR
	RB302	QRD161J-333	CARBON RESISTOR
⚠	RB303	QRD14CJ-100SX	UNF.C.RESISTOR
	RB401	QRD161J-274	CARBON RESISTOR
	RB402	QRD161J-333	CARBON RESISTOR
⚠	RB403	QRD14CJ-100SX	UNF.C.RESISTOR
	RB901	QRD161J-103	CARBON RESISTOR
	RB902	QRD161J-392	CARBON RESISTOR
	RB903	QRD161J-392	CARBON RESISTOR
	R101	QRD161J-104	CARBON RESISTOR
	R102	QRD161J-182	CARBON RESISTOR
	R104	QRD161J-105	CARBON RESISTOR
	R106	QRD161J-394	CARBON RESISTOR
	R107	QRD161J-512	CARBON RESISTOR
	R109	QRD161J-682	CARBON RESISTOR
	R111	QRD161J-180	CARBON RESISTOR
	R112	QRD161J-223	CARBON RESISTOR
	R113	QRD161J-103	CARBON RESISTOR
	R115	QRD161J-123	CARBON RESISTOR
	R123	QRD161J-104	CARBON RESISTOR
	R124	QRD161J-105	CARBON RESISTOR
	R126	QRD161J-394	CARBON RESISTOR
	R127	QRD161J-332	CARBON RESISTOR
	R128	QRD161J-222	CARBON RESISTOR
	R129	QRD161J-392	CARBON RESISTOR
	R130	QRD161J-332	CARBON RESISTOR
	R131	QRD161J-180	CARBON RESISTOR
	R132	QRD161J-223	CARBON RESISTOR
	R133	QRD161J-103	CARBON RESISTOR
	R135	QRD161J-123	CARBON RESISTOR
	R148	QRD161J-123	CARBON RESISTOR
	R151	QRD161J-473	CARBON RESISTOR
	R152	QRD161J-222	CARBON RESISTOR
	R153	QRD161J-222	CARBON RESISTOR
	R154	QRD161J-332	CARBON RESISTOR
	R157	QRD161J-272	CARBON RESISTOR
	R158	QRD161J-103	CARBON RESISTOR
	R159	QRD161J-273	CARBON RESISTOR
	R160	QRD161J-683	CARBON RESISTOR
	R161	QRD161J-472	CARBON RESISTOR
	R162	QRD161J-220	CARBON RESISTOR
	R163	QRD161J-102	CARBON RESISTOR
	R165	QRD161J-332	CARBON RESISTOR
	R166	QRD161J-102	CARBON RESISTOR
	R167	QRD161J-153	CARBON RESISTOR
	R168	QRD161J-472	CARBON RESISTOR
	R169	QRD161J-221	CARBON RESISTOR
	R170	QRD161J-471	CARBON RESISTOR
	R171	QRD161J-224	CARBON RESISTOR
	R173	QRD161J-123	CARBON RESISTOR
	R174	QRD161J-472	CARBON RESISTOR
	R176	QRD161J-103	CARBON RESISTOR
	R177	QRD161J-105	CARBON RESISTOR
	R181	QRD161J-152	CARBON RESISTOR
	R182	QRD161J-681	CARBON RESISTOR

⚠	REF.	PARTS NO.	PARTS NAME
	R183	QRD161J-472	CARBON RESISTOR
	R184	QRD161J-152	CARBON RESISTOR
	R186	QRD161J-122	CARBON RESISTOR
	R188	QRD161J-222	CARBON RESISTOR
	R201	QRD161J-104	CARBON RESISTOR
	R202	QRD161J-182	CARBON RESISTOR
	R204	QRD161J-105	CARBON RESISTOR
	R206	QRD161J-394	CARBON RESISTOR
	R207	QRD161J-512	CARBON RESISTOR
	R209	QRD161J-682	CARBON RESISTOR
	R211	QRD161J-180	CARBON RESISTOR
	R212	QRD161J-223	CARBON RESISTOR
	R213	QRD161J-103	CARBON RESISTOR
	R215	QRD161J-123	CARBON RESISTOR
	R223	QRD161J-104	CARBON RESISTOR
	R224	QRD161J-105	CARBON RESISTOR
	R226	QRD161J-394	CARBON RESISTOR
	R227	QRD161J-332	CARBON RESISTOR
	R228	QRD161J-222	CARBON RESISTOR
	R229	QRD161J-392	CARBON RESISTOR
	R230	QRD161J-332	CARBON RESISTOR
	R231	QRD161J-180	CARBON RESISTOR
	R232	QRD161J-223	CARBON RESISTOR
	R233	QRD161J-103	CARBON RESISTOR
	R235	QRD161J-123	CARBON RESISTOR
	R248	QRD161J-123	CARBON RESISTOR
	R251	QRD161J-473	CARBON RESISTOR
	R252	QRD161J-222	CARBON RESISTOR
	R253	QRD161J-222	CARBON RESISTOR
	R254	QRD161J-332	CARBON RESISTOR
	R257	QRD161J-272	CARBON RESISTOR
	R258	QRD161J-103	CARBON RESISTOR
	R259	QRD161J-273	CARBON RESISTOR
	R260	QRD161J-683	CARBON RESISTOR
	R261	QRD161J-472	CARBON RESISTOR
	R262	QRD161J-220	CARBON RESISTOR
	R263	QRD161J-102	CARBON RESISTOR
	R265	QRD161J-332	CARBON RESISTOR
	R266	QRD161J-102	CARBON RESISTOR
	R267	QRD161J-153	CARBON RESISTOR
	R268	QRD161J-472	CARBON RESISTOR
	R269	QRD161J-221	CARBON RESISTOR
	R270	QRD161J-471	CARBON RESISTOR
	R271	QRD161J-224	CARBON RESISTOR
	R273	QRD161J-123	CARBON RESISTOR
	R274	QRD161J-472	CARBON RESISTOR
	R276	QRD161J-103	CARBON RESISTOR
	R277	QRD161J-105	CARBON RESISTOR
	R281	QRD161J-152	CARBON RESISTOR
	R282	QRD161J-681	CARBON RESISTOR
	R283	QRD161J-472	CARBON RESISTOR
	R284	QRD161J-152	CARBON RESISTOR
	R286	QRD161J-122	CARBON RESISTOR
	R288	QRD161J-222	CARBON RESISTOR
	R301	QRD161J-683	CARBON RESISTOR
	R302	QRD161J-393	CARBON RESISTOR
	R303	QRD161J-473	CARBON RESISTOR
	R304	QRD161J-332	CARBON RESISTOR
	R401	QRD161J-683	CARBON RESISTOR
	R402	QRD161J-393	CARBON RESISTOR
	R403	QRD161J-473	CARBON RESISTOR
	R404	QRD161J-332	CARBON RESISTOR
	R703	QRD161J-101	CARBON RESISTOR
	R704	QRD161J-101	CARBON RESISTOR
	R705	QRD161J-101	CARBON RESISTOR
	R706	QRD161J-101	CARBON RESISTOR
	R707	QRD161J-101	CARBON RESISTOR
	R708	QRD161J-101	CARBON RESISTOR
	R711	QRD161J-471	CARBON RESISTOR
	R712	QRD161J-103	CARBON RESISTOR

Other Board Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

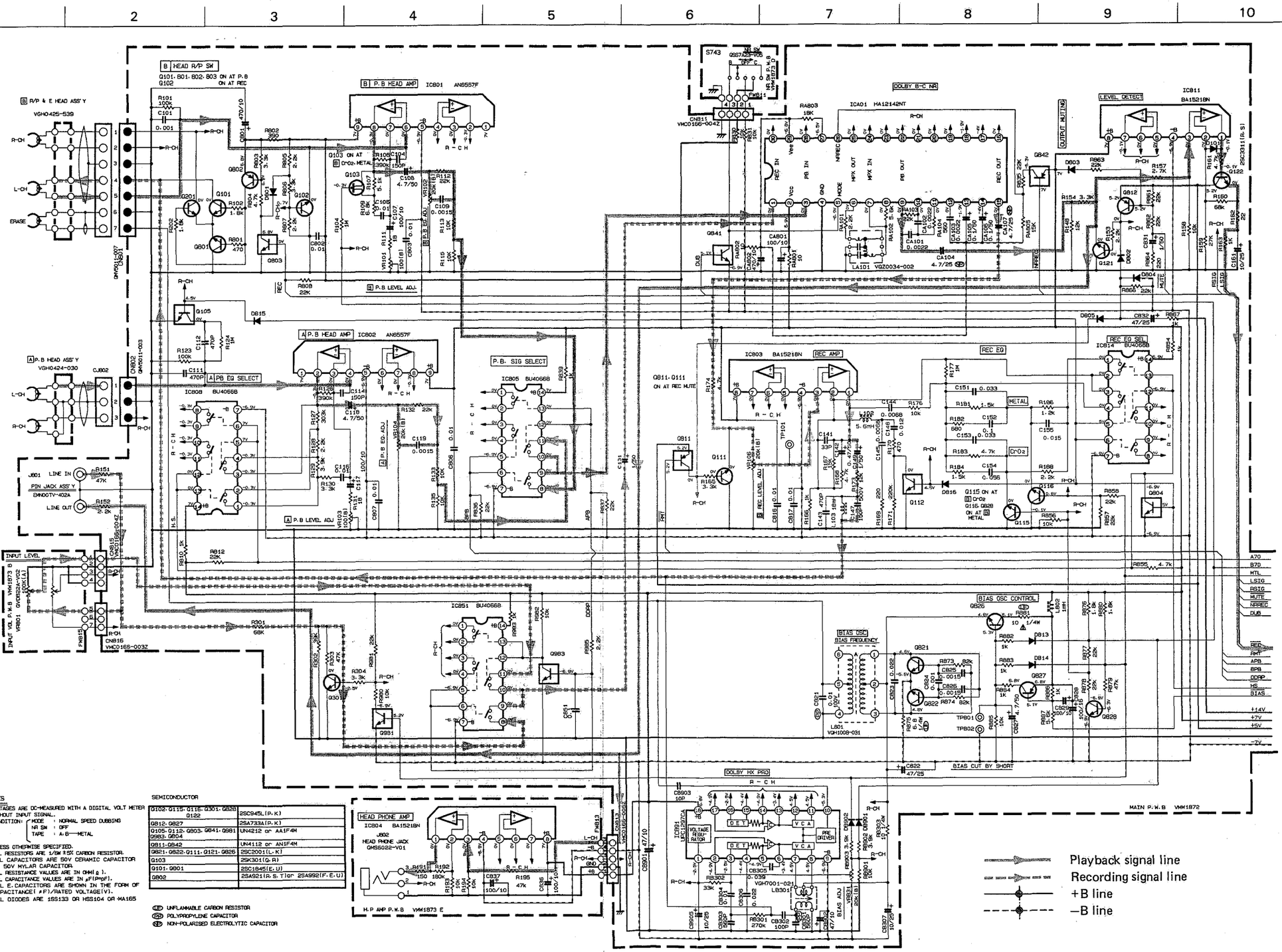
⚠	REF.	PARTS NO.	PARTS NAME
	R714	QRD161J-222	CARBON RESISTOR
	R715	QRD161J-102	CARBON RESISTOR
	R716	QRD161J-102	CARBON RESISTOR
	R717	QRD161J-471	CARBON RESISTOR
	R718	QRD161J-223	CARBON RESISTOR
	R719	QRD161J-103	CARBON RESISTOR
	R720	QRD161J-223	CARBON RESISTOR
	R721	QRD161J-473	CARBON RESISTOR
	R722	QRD161J-223	CARBON RESISTOR
	R723	QRD161J-221	CARBON RESISTOR
	R724	QRD161J-223	CARBON RESISTOR
	R725	QRD161J-104	CARBON RESISTOR
	R726	QRD161J-103	CARBON RESISTOR
	R727	QRD161J-103	CARBON RESISTOR
	R731	QRD161J-471	CARBON RESISTOR
	R732	QRD161J-272	CARBON RESISTOR
	R733	QRD161J-102	CARBON RESISTOR
	R734	QRD161J-471	CARBON RESISTOR
	R735	QRD161J-272	CARBON RESISTOR
	R736	QRD161J-102	CARBON RESISTOR
	R741	QRD161J-153	CARBON RESISTOR
	R742	QRD161J-563	CARBON RESISTOR
	R743	QRD161J-273	CARBON RESISTOR
	R744	QRD161J-103	CARBON RESISTOR
	R745	QRD161J-103	CARBON RESISTOR
	R746	QRD161J-153	CARBON RESISTOR
	R747	QRD161J-563	CARBON RESISTOR
	R748	QRD161J-273	CARBON RESISTOR
	R751	QRD161J-224	CARBON RESISTOR
	R752	QRD161J-224	CARBON RESISTOR
	R753	QRD161J-224	CARBON RESISTOR
	R754	QRD161J-224	CARBON RESISTOR
	R755	QRD161J-224	CARBON RESISTOR
	R756	QRD161J-224	CARBON RESISTOR
	R757	QRD161J-224	CARBON RESISTOR
	R758	QRD161J-224	CARBON RESISTOR
	R781	QRD161J-682	CARBON RESISTOR
	R782	QRD161J-682	CARBON RESISTOR
	R783	QRD161J-682	CARBON RESISTOR
	R784	QRD161J-682	CARBON RESISTOR
	R787	QRD161J-223	CARBON RESISTOR
	R788	QRD161J-223	CARBON RESISTOR
	R789	QRD161J-221	CARBON RESISTOR
	R790	QRD161J-223	CARBON RESISTOR
	R801	QRD161J-471	CARBON RESISTOR
	R802	QRD161J-391	CARBON RESISTOR
	R803	QRD161J-332	CARBON RESISTOR
	R804	QRD161J-472	CARBON RESISTOR
	R805	QRD161J-222	CARBON RESISTOR
	R806	QRD161J-332	CARBON RESISTOR
	R807	QRD161J-222	CARBON RESISTOR
	R808	QRD161J-223	CARBON RESISTOR
	R810	QRD161J-102	CARBON RESISTOR
	R812	QRD161J-223	CARBON RESISTOR
	R830	QRD161J-103	CARBON RESISTOR
	R831	QRD161J-103	CARBON RESISTOR
	R835	QRD161J-223	CARBON RESISTOR
	R836	QRD161J-223	CARBON RESISTOR
	R837	QRD161J-223	CARBON RESISTOR
	R839	QRD161J-102	CARBON RESISTOR
	R854	QRD161J-102	CARBON RESISTOR
	R855	QRD161J-472	CARBON RESISTOR
	R856	QRD161J-103	CARBON RESISTOR
	R857	QRD161J-223	CARBON RESISTOR
	R858	QRD161J-223	CARBON RESISTOR
	R861	QRD161J-223	CARBON RESISTOR
	R862	QRD161J-223	CARBON RESISTOR
	R863	QRD161J-223	CARBON RESISTOR
	R864	QRD161J-221	CARBON RESISTOR
	R866	QRD161J-223	CARBON RESISTOR

⚠	REF.	PARTS NO.	PARTS NAME
	R867	QRD161J-102	CARBON RESISTOR
	R873	QRD161J-823	CARBON RESISTOR
	R874	QRD161J-823	CARBON RESISTOR
⚠	R875	QRD14CJ-6R8SX	UNF.C.RES.I.M
	R876	QRD161J-182	CARBON RESISTOR
	R877	QRD161J-223	CARBON RESISTOR
	R878	QRD161J-223	CARBON RESISTOR
	R879	QRD161J-473	CARBON RESISTOR
	R880	QRD161J-182	CARBON RESISTOR
⚠	R881	QRZ0077-100X	F.RESISTOR
	R882	QRD161J-102	CARBON RESISTOR
	R883	QRD161J-102	CARBON RESISTOR
	R884	QRD161J-102	CARBON RESISTOR
	R885	QRD161J-103	CARBON RESISTOR
	R886	QRD161J-102	CARBON RESISTOR
	R887	QRD161J-562	CARBON RESISTOR
⚠	R901	QRD14CJ-4R7SX	CARBON RESISTOR
⚠	R902	QRZ0077-4R7X	F. RESISTOR
	R907	QRD161J-332	CARBON RESISTOR
	R908	QRD161J-272	CARBON RESISTOR
⚠	R909	QRD161J-471	CARBON RESISTOR
	R910	QRD161J-471	CARBON RESISTOR
⚠	R912	QRD14CJ-471SX	CARBON RESISTOR
⚠	R913	QRZ0077-4R7X	F. RESISTOR
	R914	QRD161J-681	CARBON RESISTOR
	R916	QRD161J-681	CARBON RESISTOR
⚠	R919	QRG019J-150A	OMF RESISTOR
⚠	R920	QRZ0077-4R7X	F. RESISTOR
	R931	QRH144J-4R7	FUSI RESISTOR
	R951	QRD161J-471	CARBON RESISTOR
	R952	QRD14CJ-4R7SX	CARBON RESISTOR
	R980	QRD161J-103	CARBON RESISTOR
	R981	QRD161J-223	CARBON RESISTOR
	R982	QRD161J-103	CARBON RESISTOR
	R983	QRD161J-102	CARBON RESISTOR
	R985	QRD161J-222	CARBON RESISTOR
	VRB31	QVZ3523-203AZ	V RESISTOR
	VRB41	QVZ3523-203AZ	V RESISTOR
	VR101	QVZ3523-101AZ	V RESISTOR
	VR102	QVZ3523-203AZ	V RESISTOR
	VR103	QVZ3523-101AZ	V RESISTOR
	VR104	QVZ3523-203AZ	V RESISTOR
	VR106	QVZ3523-203AZ	V RESISTOR
	VR201	QVZ3523-101AZ	V RESISTOR
	VR202	QVZ3523-203AZ	V RESISTOR
	VR203	QVZ3523-101AZ	V RESISTOR
	VR204	QVZ3523-203AZ	V RESISTOR
	VR206	QVZ3523-203AZ	V RESISTOR
	VR701	QVPE612-203ZM	V RESISTOR
	VR702	QVPE612-103ZM	V RESISTOR
	VR703	QVPE612-203ZM	V RESISTOR
	VR704	QVPE612-103ZM	V RESISTOR

⚠	REF.	PARTS NO.	PARTS NAME
	CN601	VMC0161-R24	CONNECTOR
	C601	QETC1CM-107ZN	E.CAPACITOR
	C836	QETC1AM-107ZN	E CAPACITOR
	C837	QETC1AM-107ZN	E CAPACITOR
	D601	MTZ7.5CT-77	Z DIODE
	D701	1SS133	DIODE
	D703	1SS133	DIODE
	D704	1SS133	DIODE
	FL601	BG-901G	FL TUBE
	IC804	XRA15218N	IC
	J802	QMS6022-V01	JACK
	Q601	2SC945L(P,K)	TRANSISTOR
	RN601	QRB105J-223	R.NETWORK
	RN602	QRB105J-223	R.NETWORK
	R191	QRD161J-151	CARBON RESISTOR
	R192	QRD161J-184	CARBON RESISTOR
	R193	QRD161J-103	CARBON RESISTOR
	R194	QRD161J-103	CARBON RESISTOR
	R195	QRD161J-473	CARBON RESISTOR
	R291	QRD161J-151	CARBON RESISTOR
	R292	QRD161J-184	CARBON RESISTOR
	R293	QRD161J-103	CARBON RESISTOR
	R294	QRD161J-103	CARBON RESISTOR
	R295	QRD161J-473	CARBON RESISTOR
	R601	QRD161J-222	CARBON RESISTOR
	R602	QRD161J-182	CARBON RESISTOR
	R603	QRD161J-272	CARBON RESISTOR
	R606	QRD161J-102	CARBON RESISTOR
	R607	QRD161J-122	CARBON RESISTOR
	R608	QRD161J-102	CARBON RESISTOR
	R609	QRD161J-122	CARBON RESISTOR
	R613	QRD161J-102	CARBON RESISTOR
	R614	QRD161J-122	CARBON RESISTOR
	R615	QRD161J-182	CARBON RESISTOR
	R616	QRD161J-272	CARBON RESISTOR
	R617	QRD161J-472	CARBON RESISTOR
	R631	QRD161J-223	CARBON RESISTOR
	S702	QSQ4H11-V01Z	TACT SWITCH
	S703	QSQ4H11-V01Z	TACT SWITCH
	S704	QSQ4H11-V01Z	TACT SWITCH
	S705	QSQ4H11-V01Z	TACT SWITCH
	S706	QSQ4H11-V01Z	TACT SWITCH
	S707	QSQ4H11-V01Z	TACT SWITCH
	S709	QSQ4H11-V01Z	TACT SWITCH
	S710	QSQ4H11-V01Z	TACT SWITCH
	S713	QSQ4H11-V01Z	TACT SWITCH
	S714	QSQ4H11-V01Z	TACT SWITCH
	S715	QSQ4H11-V01Z	TACT SWITCH
	S716	QSQ4H11-V01Z	TACT SWITCH
	S717	QSQ4H11-V01Z	TACT SWITCH
	S718	QSQ4H11-V01Z	TACT SWITCH
	S721	VSH1140-003	LEAF SWITCH
	S722	VSH1140-003	LEAF SWITCH
	S723	QSS7A23-V05	SLIDE SWITCH
	S724	VSH1140-003	LEAF SWITCH
	S725	VSH1140-003	LEAF SWITCH
	S726	VSH1140-003	LEAF SWITCH
	S727	VSH1140-003	LEAF SWITCH
	S743	QSS7A23-V05	SLIDE SWITCH
	S901	QST8101-V08	PUSH SW
	VR801	QVDB22A-V02	V.RESISTOR

TD-W205TN/-W204BK A/B/C/E/G/J/U

Standard Schematic Diagram



NOTES

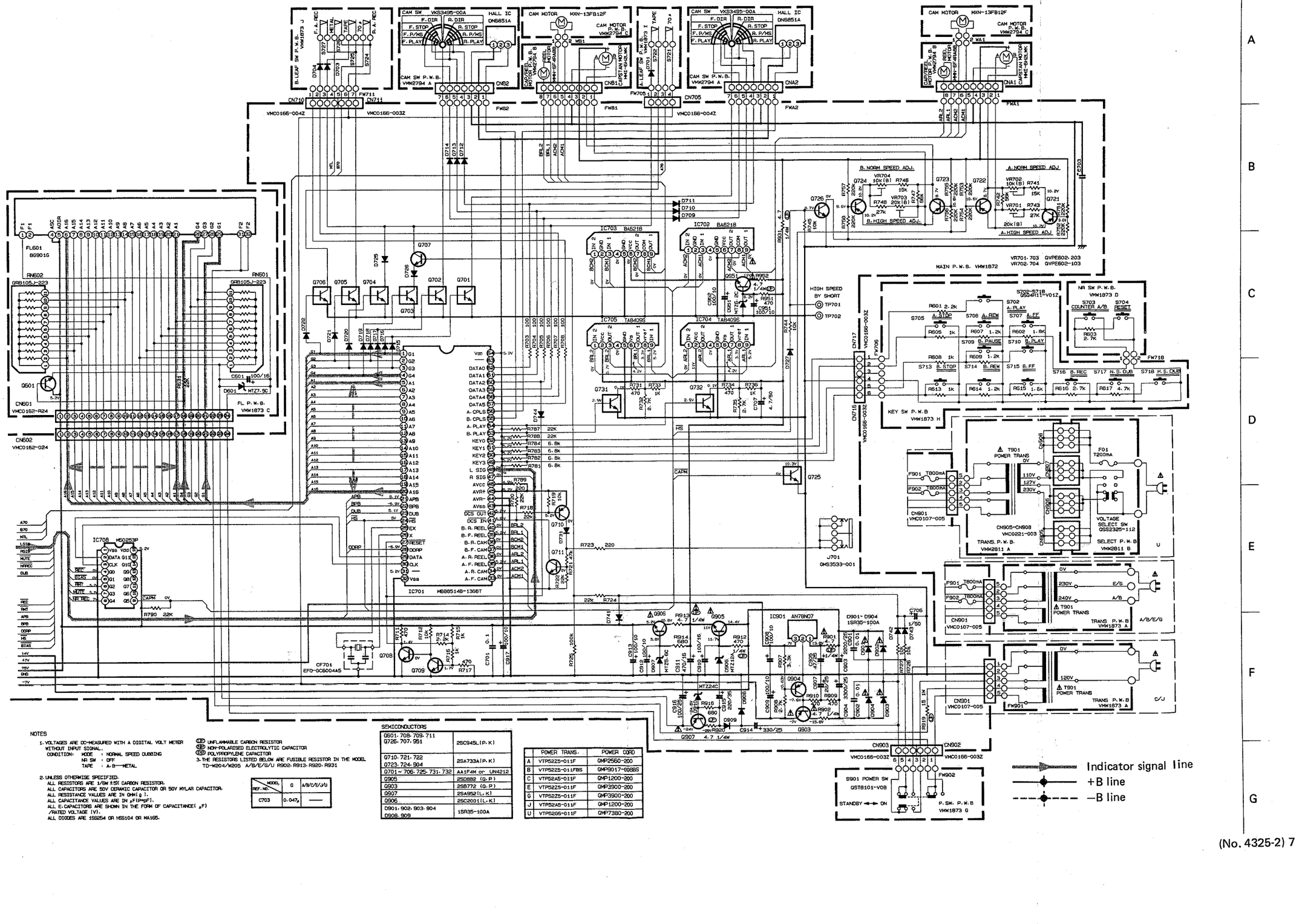
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION: MODE : NORMAL SPEED DUBBING
   NR SW : OFF
   TAPE : A·B——METAL
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE(V).
   ALL DIODES ARE 1SS133 OR HSS104 OR MA165

SEMICONDUCTOR

Q102·Q115·Q116·Q301·Q828·Q122	2SC945L(P.K)
Q812·Q827	2SA733A(P.K)
Q105·Q112·Q803·Q841·Q981·Q983·Q804	UN4212 or AA1F4M
Q811·Q842	UN4112 or AN1F4M
Q821·Q822·Q111·Q121·Q826	2SC2001(L.K)
Q103	2SK301(Q.R)
Q101·Q801	2SC1845(E.U)
Q802	2SA9211(R.S.T)or 2SA992(F.E.U)

UNFLAMMABLE CARBON RESISTOR
POLYPROPYLENE CAPACITOR
NON-POLARISED ELECTROLYTIC CAPACITOR

Playback signal line
Recording signal line
+B line
—B line



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION: MODE : NORMAL SPEED DUBBING
   NR SW : OFF
   TAPE : A·B—METAL.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/8W ±5% CARBON RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF) /RATED VOLTAGE (V).
   ALL DIODES ARE 1SS254 OR HSS104 OR MA165.

(B) UNFLAMMABLE CARBON RESISTOR
(M) NON-POLARISED ELECTROLYTIC CAPACITOR
(P) POLYPROPYLENE CAPACITOR
3. THE RESISTORS LISTED BELOW ARE FUSIBLE RESISTOR IN THE MODEL TD-W204/W205 A/B/E/G/U R902· R913· R920· R931

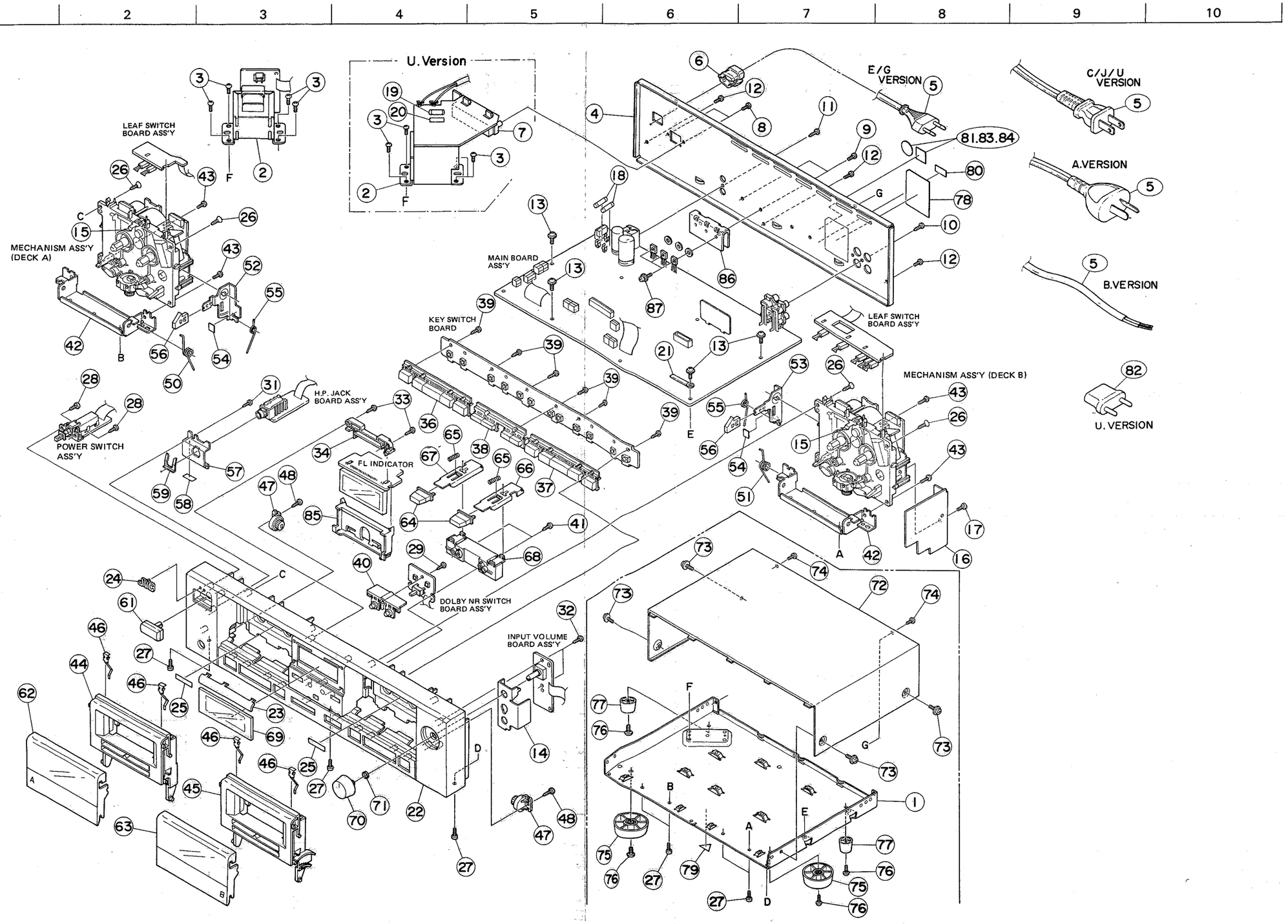
MODEL / REF. NO.	G	A/B/C/E/J/U
C703	0.047μ	—

SEMICONDUCTORS

Q601· 708· 709· 711 Q726· 707· 551	2SC945L(P.K)
Q710· 721· 722 Q723· 724· 904	2SA733A(P.K)
Q701~ 706· 725· 731· 732	AA1F4M or UN4212
Q905	2SD882 (Q.P)
Q903	2SB772 (Q.P)
Q907	2SA952(L.K)
Q906	2SC2001(L.K)
D901· 902· 903· 904 D908· 909	1SR35-100A

	POWER TRANS.	POWER CORD
A	VTP5225-011F	GMP2560-200
B	VTP5225-011FBS	GMP9017-006BS
C	VTP52A5-011F	GMP1200-200
E	VTP5225-011F	GMP3900-200
G	VTP5225-011F	GMP3900-200
J	VTP52A5-011F	GMP1200-200
U	VTP5205-011F	GMP7380-200

Exploded View of Enclosure



Enclosure Component Parts List

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	22,24,25	**ZCTDW205K-FTN**	**FRONT PANEL ASS'Y**		**1**
	22,24,25	**ZCTDW205J-FTN**	**FRONT PANEL ASS'Y**	**J VERSION**	**1**
	44,46	**ZCTDW205K-CH-A**	**CASSETTE HOLDER ASS'Y**	**DECK A**	**1**
	45,46	**ZCTDW205K-CH-B**	**CASSETTE HOLDER ASS'Y**	**DECK B**	**1**
	1	VKL1333-001	CHASSIS BASE		1
⚠	2	VTP52A5-011F	POWER TRANS	C/J VERSION	1
⚠		VTP52G5-011F	POWER TRANS	U VERSION	1
⚠		VTP52Z5-011F	POWER TRANS	A/G/E VERSION	1
⚠		VTP52Z5-011FBS	POWER TRANS	B VERSION	1
	3	SBST3006Z	TAP.SCREW	FOR POWER TRANS	4
	4	VJC2410-001	REAR PANEL		1
		VJC2410-002	REAR PANEL	FOR U VERSION	1
⚠	5	QMP1200-200	POWER CORD	FOR C/J VERSION	1
⚠		QMP2560-200	POWER CORD	FOR A VERSION	1
⚠		QMP3900-200	POWER CORD	FOR E/G VERSION	1
⚠		QMP7380-200	POWER CORD	FOR U VERSION	1
⚠		QMP9017-008BS	POWER CORD	FOR B VERSION	1
⚠	6	QHS3771-108	CORD STOPPER		1
⚠		QHS3771-108BS	CORD STOPPER	FOR B VERSION	1
	7	VKS5011-001	VOLTAGE CONTACT	FOR U VERSION	1
	8	SBSF3008M	SCREW	FOR V.SELECTOR	2
	9	SBSF3008M	SCREW	FOR HEAT SINK	2
	10	SBSF3008M	SCREW	FOR PIN JACK	1
	11	SBSF3008M	SCREW	FOR DCS JACK	1
	12	SBST3006M	TAP.SCREW	FOR REAR+CHASSIS	3
	13	GBST3006Z	SCREW	FOR MAIN P.C.BOAR	4
	14	VMA4497-001	SHIELD CASE		1
	15	VKY4628-002	PACK SPRING		2
	16	VMA4499-001	SHIELD PLATE	FOR B-MECHANISM	1
	17	SPST2605Z	SCREW		1
⚠	18	QMF51A2-R80	FUSE	F902 A/E/G/U VERS	2
⚠		QMF51E2-R80BS	FUSE	F902 B VERSION	2
⚠	19	QMF51A2-R20	FUSE	F903 U VERSION	1
⚠	20	VND4003-032	FUSE LABEL	U VERSION	1
	21	VKZ4001-111	WIRE HOLDER		1
	22	VJC1963-018	FRONT PANEL		1
		VJC1963-019UL	FRONT PANEL	FOR C/J VERSION	1
	23	VJD5338-001	FITTING		1
	24	E72968-001	JVC MARK		1
	25	VJD4024-001	REFLECTION PLAT		2
	26	SSSF3012Z	SCREW	FOR MECHANISM	4
	27	SBST3006M	TAP.SCREW	FOR FRONT PANEL	7
	28	SBSF3008Z	SCREW	FOR POWER SWITCH	2
	29	SBSF2608Z	SCREW	FOR NR SWITCH	1
	31	GBSF2608Z	T SCREW	FOR HEAD PHONE	1
	32	SBSF2608Z	SCREW	FOR INPUT VOLUME	2
	33	SBSF2608Z	SCREW	FOR FL HOLDER	2
	34	VYH7434-001	STOPPER	FOR FL HOLDER	1
	36	VXP3408-009	MECHA BUTTON	DECK A	1
	37	VXP3408-010	MECHA BUTTON	DECK B	1
	38	VXP3409-001	MECHA BUTTON	SYNCHRO/REC	1
	39	SBSF2608Z	SCREW	KEY SWITCH	6
	40	VXP5019-001	PUSH BUTTON	FOR FL	1
	41	SBSF2608Z	SCREW	FOR FL BUTTON HOL	2
	42	VKM3474-008	MECHA BRACKET		2
	43	SSST3010Z	SCREW	FOR MECHANISM	4
	44	VJT2260-003	CASSETTE HOLDER	FOR DECK A	1
	45	VJT2260-004	CASSETTE HOLDER	FOR DECK B	1
	46	VKY4180-001	CASSETTE SPRING		4
	47	E305654-003	DUMPER ASS'Y		2
	48	SBSF3010Z	SCREW	FOR DUMPER	2
	50	VKW3006-220	TORSIONSPRING	FOR DECK A	1
	51	VKW4980-001	TORSIONSPRING	FOR DECK B	1
	52	VKM3476-001	LOCK LEVER (L)	FOR DECK A	1
	53	VKM3475-001	LOCK LEVER (R)	FOR DECK B	1
	54	VYSS1R2-042	SPACER	FOR LOCK LEVER	2
	55	VKW4979-001	TORSHION SPRING		2
	56	VYH7424-001	LOCK PLATE		2
	57	VKL6993-001	JACK BRACKET	FOR H.PHONE	1
	58	VYSS1R2-031	SPACER	FOR H.PHONE	1
	59	VKL6752-001	SNAP PLATE	FOR H.PHONE	1
	61	VXP5032-001	PUSH BUTTON	FOR POWER	1
	62	VJT2261-003	CASSETTE LID	FOR DECK A	1
	63	VJT2261-004	CASSETTE LID	FOR DECK B	1

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

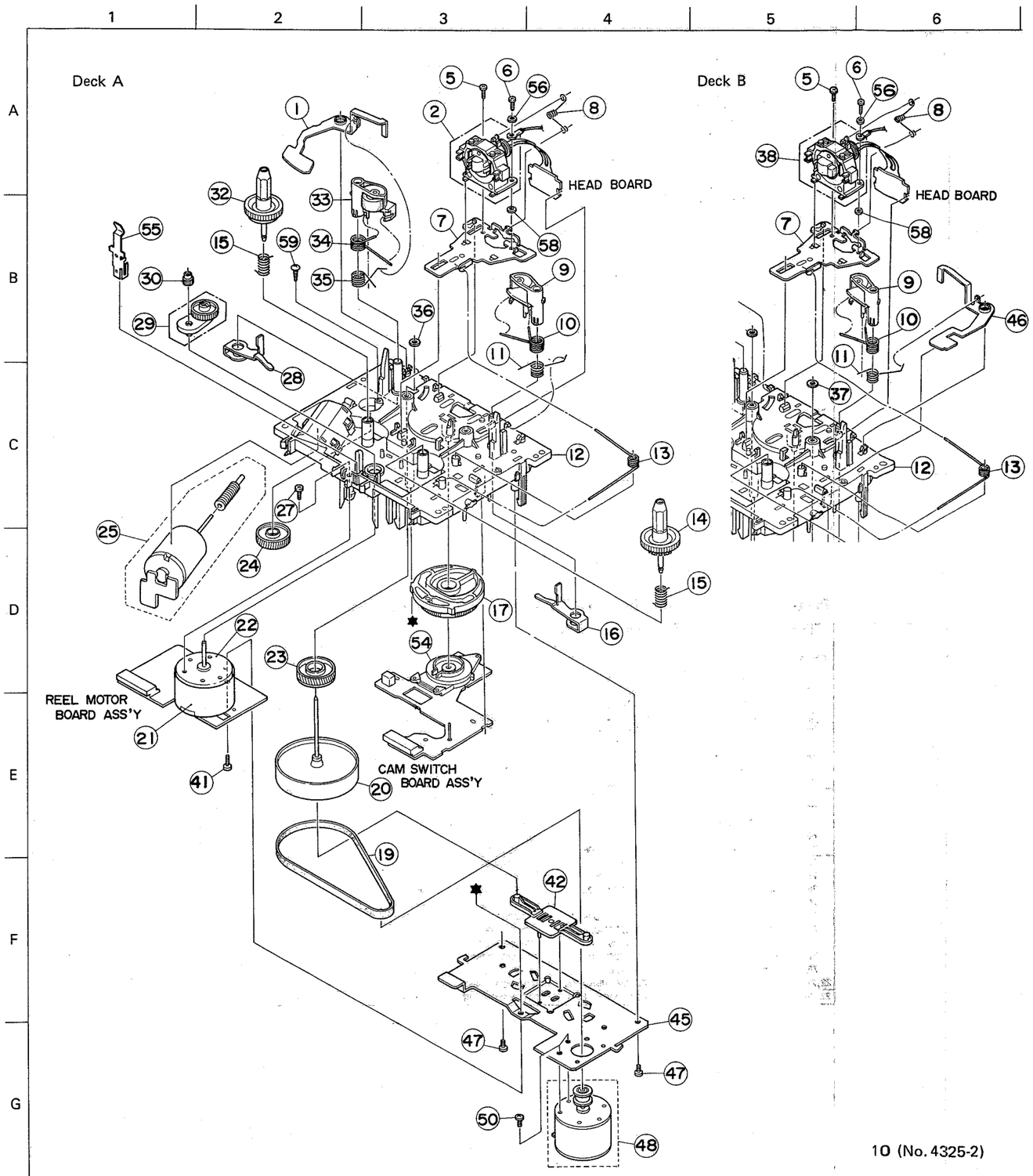
⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	64	VXP4813-002	PUSH BUTTON	FOR EJECT	2
	65	VKW3001-077	C.SPRING	FOR EJECT BUTTON	2
	66	VKL6990-001	REMOTE ARM	FOR EJECT	1
	67	VKL6990-002	REMOTE ARM	FOR EJECT	1
	68	VYH3668-001	BUTTON HOLDER		1
	69	VJK4376-003	FINDER		1
	70	VXL4335-005	KNOB	INPUT VOLUME	1
	71	VKW4901-001	KNOB SPRING	INPUT VOLUME	1
	72	VJC1964-001	TOP COVER		1
	73	VKZ4614-001	SPECIAL SCREW	FOR TOP COVER	4
	74	SBST3006M	TAP.SCREW	FOR TOP COVER	2
	75	VJF4039-00A	FOOT ASS'Y		2
	76	SBST3008Z	TAP.SCREW	FOR FOOT	4
	77	E47227-036	FOOT	FOR REAR SIDE	2
	78	VYN2280-002PA	NAME PLATE	B VERSION	1
		VYN2280-003PA	NAME PLATE	A VERSION	1
		VYN2280-004PA	NAME PLATE	C VERSION	1
		VYN2280-005PA	NAME PLATE	E VERSION	1
		VYN2280-006PA	NAME PLATE	J VERSION	1
		VYN2280-007PA	NAME PLATE	U VERSION	1
		VYN2280-008PA	NAME PLATE	G VERSION	1
	79	VND4113-001	G.CAUTION LABEL	B/J VERSION	1
	80	VND4205-004	CAUTION LABEL		1
	81	QZL1007-001	BEAB LABEL		1
	82	V04062-001	CONTI.PLUG	FOR U VERSION	1
	83	T44362-001	CSA LABEL	C VERSION	1
	84	VND4037-002	F MARK	G VERSION	1
	85	VYH3669-001	FL HOLDER		1
⚠	86	VMH4011-002	HEAT SINK	IC901,Q903,Q905	1
	87	DPSP3008Z	SCREW	IC901,Q903,Q905	3

Parts Comparison Table between TD-W205TN and TD-W204BK

(TD-W205TN : Titanium color, TD-W204BK : Black)

Ref. No.	Parts Name	TD-W205TN	TD-W204BK	Remarks
4	Rear Panel	VJC2410-002	VJC2410-005	U version
4	Rear Panel	VJC2410-015	VJC2410-016	
22	Front Panel	VJC1963-018	VJC1963-025	
22	Front Panel	VJC1963-019UL	VJC1963-026UL	C/J version
36	Mechanism Button	VXP3408-009	VXP3408-011	Deck A
37	Mechanism Button	VXP3408-010	VXP3408-012	Deck B
38	Mechanism Button	VXP3409-001	VXP3409-002	SYNCHRO/REC
40	Push Button	VXP5019-001	VXP5019-002	FL
61	Push Button	VXP5032-001	VXP5032-002	POWER
62	Cassette Lid	VJT2261-003	VJT2261-011	Deck A
63	Cassette Lid	VJT2261-004	VJT2261-012	Deck B
64	Push Button	VXP4813-002	VXP4813-001	
69	Finder	VJK4376-003	VJK4376-004	
70	Input Volume	VXL4335-005	VXL4335-002	
72	Top Cover	VJC1964-001	VJC1964-002	
75	Foot Ass'y	VJF4039-00A	VJF4039-00B	
78	Name Plate	VYN2280-003PA	VYN2282-003PA	A version
78	Name Plate	VYN2280-002PA	VYN2282-002PA	B version
78	Name Plate	VYN2280-004PA	VYN2282-004PA	C version
78	Name Plate	VYN2280-005PA	VYN2282-005PA	E version
78	Name Plate	VYN2280-008PA	VYN2282-008PA	G version
78	Name Plate	VYN2280-006PA	VYN2282-006PA	J version
78	Name Plate	VYN2280-007PA	VYN2282-007PA	U version
22,24,25	**Front Panel Ass'y**	**ZCTDW205K-FTN**	**ZCTDW204K-FBK**	
22,24,25	**Front Panel Ass'y**	**ZCTDW205J-FTN**	**ZCTDW204K-FBK**	**J version**

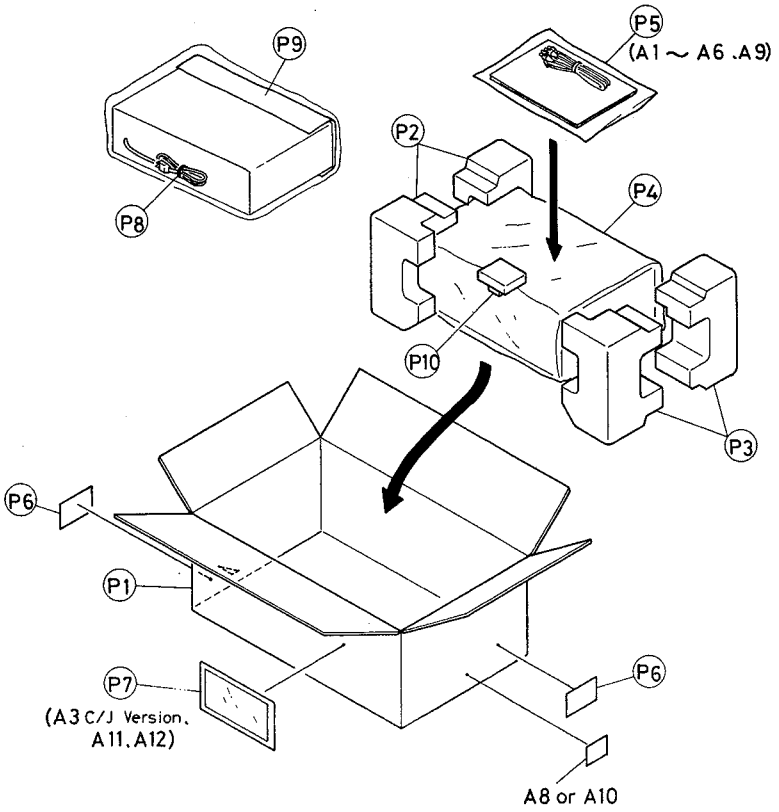
Exploded View of Mechanism Component Parts



Mechanism Component Parts List

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1	VKL6954-004	EJECT SAFETY(R)		1
	2	VDG5149-002MA1	HEAD MOUNT ASSY		1
	5	SDST2004Z	SCREW	MOUNT BASE	1
	6	SDST2005Z	SCREW		1
	7	VKL6942-00C	HEAD BASE AS'Y		1
	8	VKW4914-007	HEAD SPRING	HEAD GEAR	1
	9	VKP3118-001	P. R. ARM (L)		1
	10	VKW3006-213	TORSION SPRING	PINCH(L)	1
	11	VKW4933-003	TORSION SPRING	P.ARM(L)	1
	12	VKS1112-20E	CHASSIS B ASSY		1
	13	VKW4930-003	RETURN SPRING	HEAD BASE	1
	14	VKS3480-003	REEL		1
	15	VKW4928-002	B.T. SPRING		1
		VKW4928-002	B.T. SPRING		1
	16	VKL6940-002	PINCH LEVER (L)		1
	17	VKS2209-004	CONTROL CAM		1
	19	VKB3001-051	BELT		1
	20	VKF3180-00C	FLYWHEEL(R)ASSY		1
	21	FE-ZMS514	SHIELD CORE		1
	22	MMN-6F4RA88	D.C.MOTOR	REEL	1
	23	VKS5331-002	ACT. GEAR (6)		1
	24	VKS5330-003	ACT. GEAR (5)		1
	25	MXN13FB12F-SA2	DC MOTOR ASS'Y	ACTUAL	1
	27	SDSP2605Z	SCREW		1
	28	VKL6939-002	PINCH LEVER (R)		1
	29	VKS5325-00D	FR ARM ASS'Y		1
	30	VKS5328-002	REEL MOT. GEAR		1
	32	VKS5321-00C	T-UP REEL ASS'Y		1
	33	VKP4219-00A	PINCH R.(R) ASY		1
	34	VKW3006-212	TORSION SPRING	PINCH(R)	1
	35	VKW4932-003	TORSION SPRING	P.ARM(R)	1
	36	VKZ4035-009	WASHER	OIL CUT(R)	1
	38	VDD5149-002MB1	HEAD MOUNT ASS'Y	DECK B	1
	41	SDSF2608Z	SCREW		1
	42	VKS5327-003	THRUST PLATE		1
	45	VKM3416-004	FM BKT		1
	46	VKL6943-004	EJECT SAFETY	DECK B	1
	47	SDSF2605Z	SCREW	FM BRACKET	2
	48	MMI6H2LWK-SA5	MOTOR ASS'Y	CAPSTAN	1
	50	SPSP2603Z	SCREW		2
	54	VKS3495-00A	CAM SWITCH UNIT		1
	55	VKY4628-001	PACK SPRING		1
	56	WNS2000N	WASHER		1
	58	WFM266013	WASHER		1
	59	GBSF3008Z	TAPPING SCREW	DECK A ONLY	1

Packing and Accessories



⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	A 1	VMP0039-00D	PIN CORD		1
	A 2	VNN2280-661	INST BOOK		1
	A 3	BT-20025K	WARRANTY CARD	C VERSION	1
		BT-20044G	WARRANTY CARD	J VERSION	1
		BT-20047E	WARRANTY CARD	J/U VERSION	1
		BT-20060	WARRANTY CARD	B VERSION	1
		BT-20066A	WARRANTY CARD	B VERSION	1
		BT-20108A	WARRANTY CARD	J/U VERSION	1
		BT-20117	WARRANTY CARD	FOR JED,U VERSION	1
		BT-20122	WARRANTY CARD	A VERSION	1
		BT-20122-1	WARRANTY CARD	A VERSION	1
	A 4	EWP805-001E	REMOTE WIRE		1
	A 5	E43486-340A	SSFETY I.SHEET	B VERSION	1
	A 6	TCN-3379	AUDIO TAPE PAMP	B/E/G VERSION	1
		TCP-3428	AUDIO TAPE PAMP	A/U VERSION	1
		TCU-3492	AUDIO TAPE PAMP	C/J VERSION	1
	A 8	VND3069-016	EAN CORD LABEL	A/B/G/E/U	1
	A 9	BT-20071A	JVC CENTER LIST	C VERSION	1
	A10	VND3065-019	UPC CORD LABEL	C/J VERSION	1
	A11	VNC5311-203	CAUTION CARD	FOR EES,U VERSION	1
	A12	VNC5311-204	CAUTION CARD	FOR PX,U VERSION	1
	P 1	VPC2280-001	CARTON		1
	P 2	VPH2422-001	CUSHION (L)		1
	P 3	VPH2423-001	CUSHION (R)		1
	P 4	E300196-031B	ENVELOPE		1
	P 5	VPE3005-007	POLY BAG		1
	P 6	VND3044-001	SIRIAL TICKET	A/U VERSION	1
		VND3044-002	SERIAL TICKET	J VERSION	2
		VND3044-003	SIRIAL TICKET	E VERSION	1
		VND3044-004	SIRIAL TICKET	B VERSION	1
		VND3044-005	SIRIAL TICKET	G VERSION	1
		VND3044-006	SERIAL TICKET	C VERSION	2
	P 7	E66416-003	ENVELOPE	J/U VERSION	1
	P 8	Q04141H	WIRE CLAMP		1
	P 9	VPK3001-012	SHEET		1
	P10	VPH3218-001	CUSHION		1

JVC

VICTOR COMPANY OF JAPAN, LIMITED.
AUDIO PRODUCTS DIVISION MAEBASHI PLANT 10-1, 1-chome, Ohwatari-cho, Maebashi-city 371, Japan

Printed in Japan
—H0212 —S—

4 Wiring Connections

■ Cam Switch Board

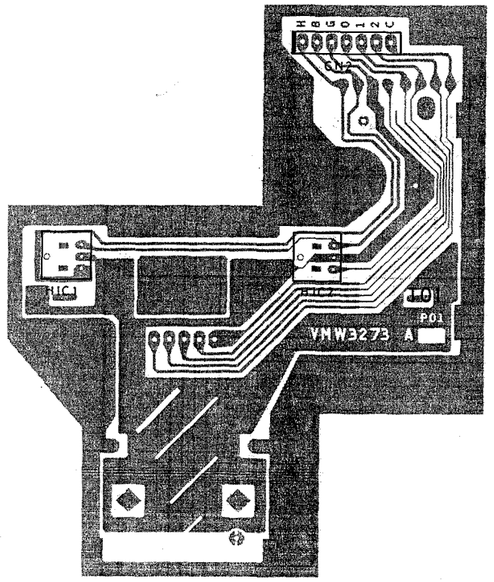


Fig. 4-1

● Cam Switch Board Parts List

⚠	REF.	PARTS NO.	PARTS NAME
		DN 6851A	HALL IC
		VHS3847-002	IC HOLDER

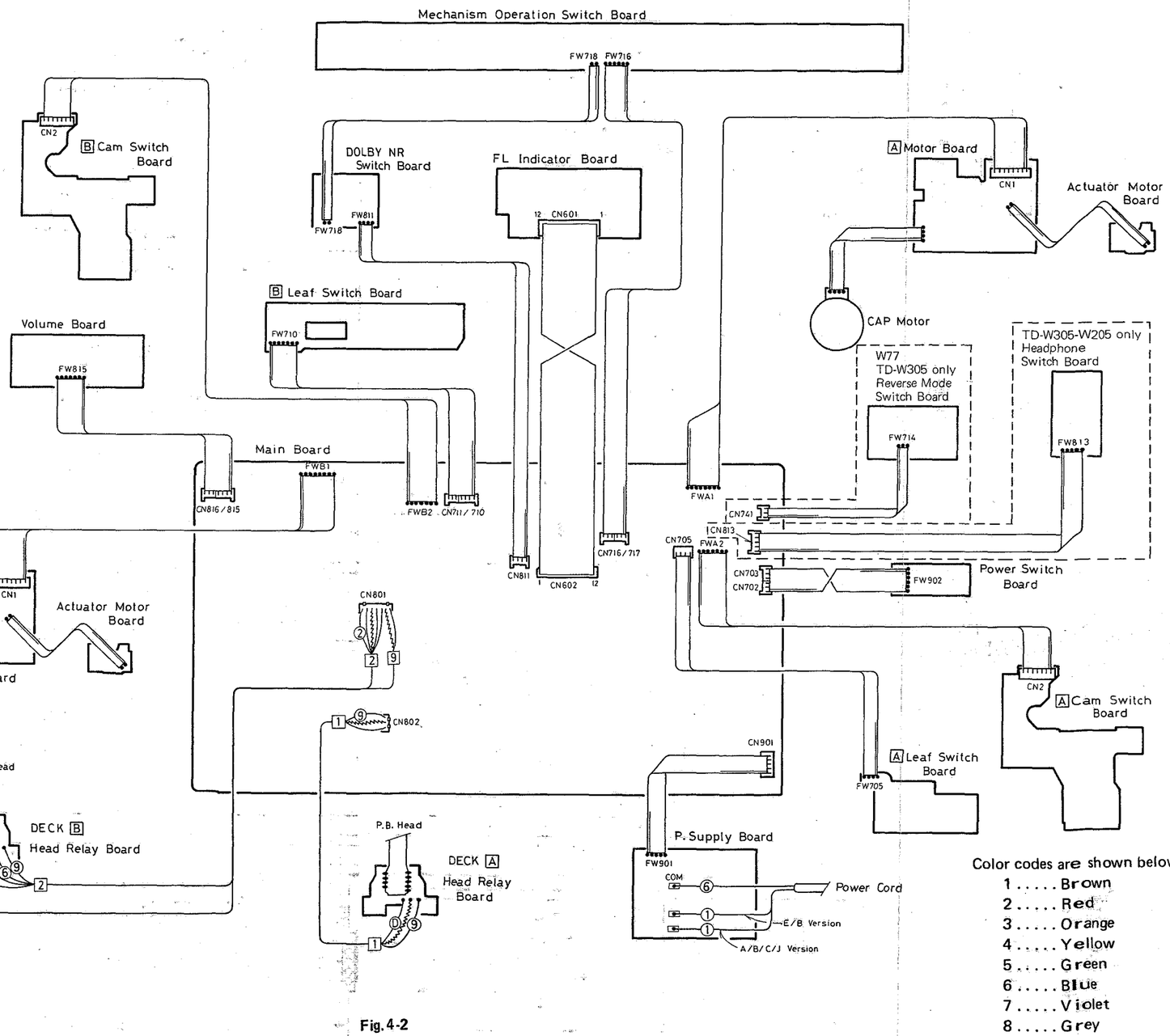
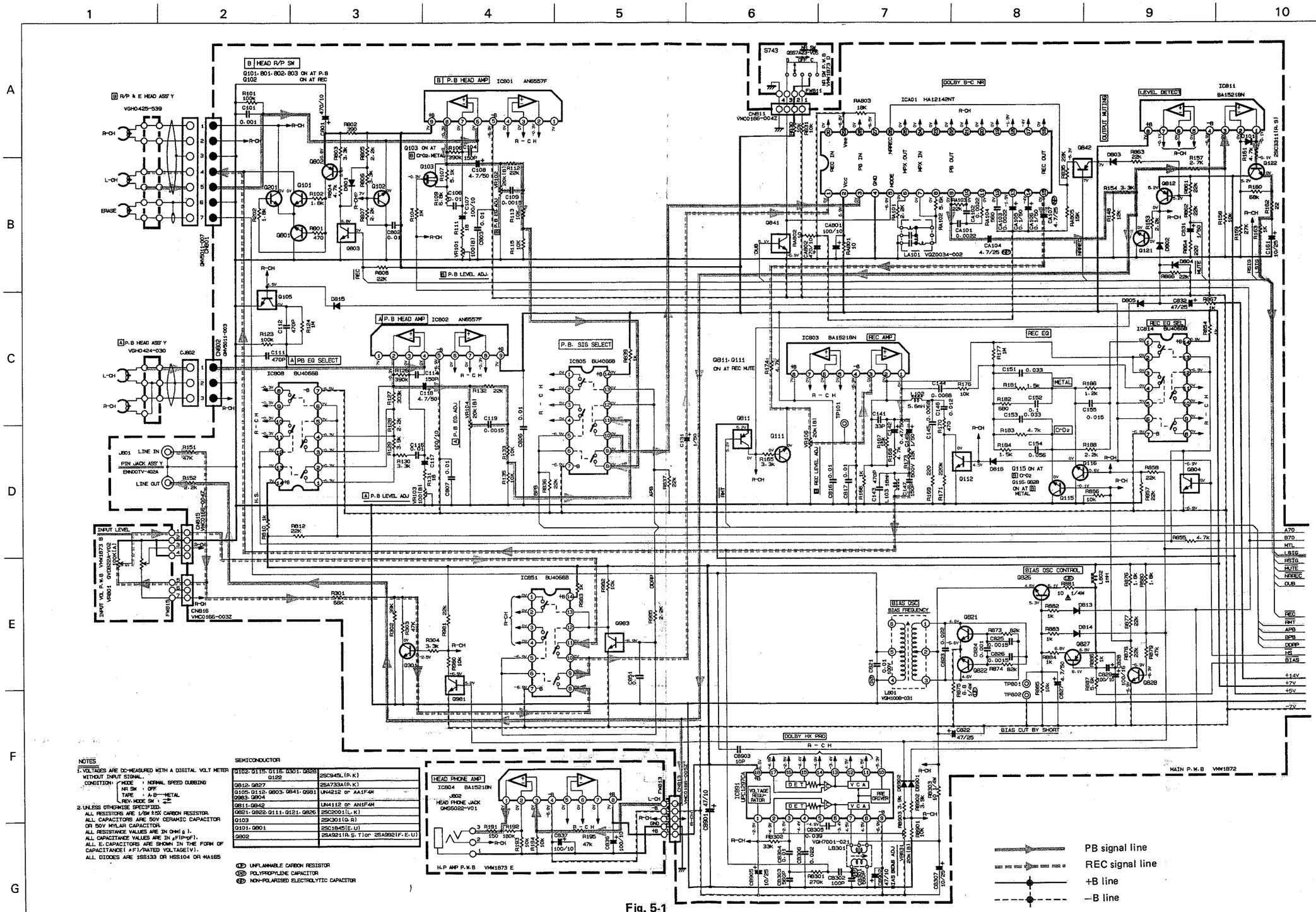


Fig. 4-2

Color codes are shown below.

1 ..... Brown
2 ..... Red
3 ..... Orange
4 ..... Yellow
5 ..... Green
6 ..... Blue
7 ..... Violet
8 ..... Grey
9 ..... White
0 ..... Black

5 Standard Circuit Diagram



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION: MODE : NORMAL SPEED DUBBING
   NR SW : OFF
   TAPE : A·B—METAL
   REV-MODE SW : ⇉
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE(V).
   ALL DIODES ARE 1SS133 OR HSS104 OR MA165

SEMICONDUCTOR

Q102·0115·0116·0301·0828 Q122	2SC945L(P,K)
Q812·0827	2SA733A(P,K)
Q105·0112·0803·0841·0981 Q983·0804	UN4212 or AA1F4M
Q811·0842	UN4112 or AN1F4M
Q821·0822·0111·0121·0826	2SC2001(L,K)
Q103	2SK301(G,R)
Q101·0901	2SC1845(E,U)
Q802	2SA921(R,S,T)or 2SA992(F,E,U)

UNFLAMMABLE CARBON RESISTOR
POLYPROPYLENE CAPACITOR
NON-POLARISED ELECTROLYTIC CAPACITOR

Fig. 5-1

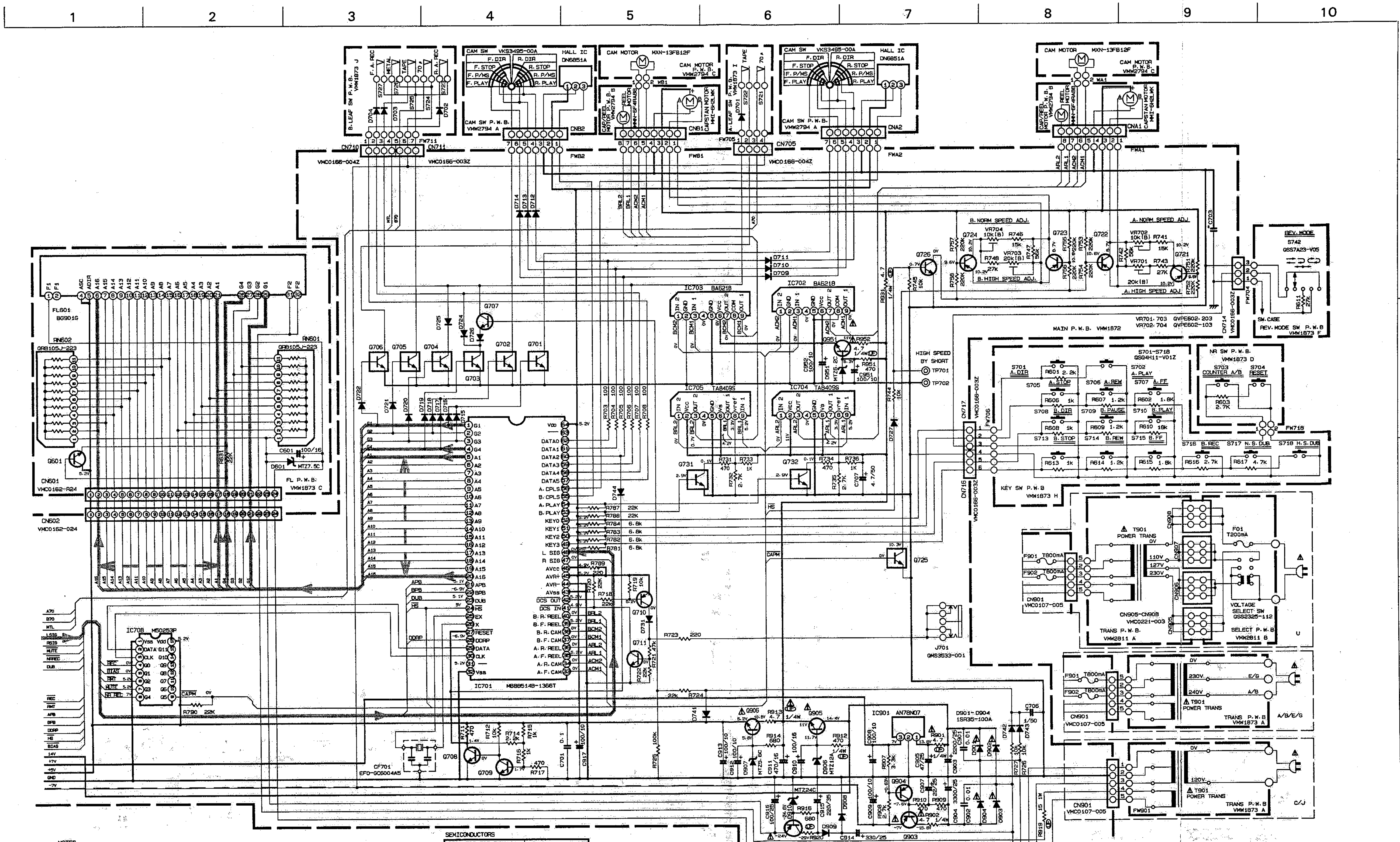


Fig. 5-2

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION: MODE : NORMAL SPEED DUBBING
   NR SW : OFF
   TAPE : A.B—METAL
   REV. MODE SW : ⇄
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS254 OR HSS104 OR MA165.

UF UNFLAMMABLE CARBON RESISTOR
NP NON-POLARISED ELECTROLYTIC CAPACITOR
PP POLYPROPYLENE CAPACITOR

3. THE RESISTORS LISTED BELOW ARE FUSIBLE RESISTOR IN THE MODEL TD-W304/W305 A/B/E/G/U R902, R913, R920, R931

MODEL / REF. NO.	G	A/B/C/E/J/U
C703	0.047μ	——

SEMICONDUCTORS

Q601, 708, 709, 711 Q726, 707, 951	2SC945L(P, K)
Q710, 721, 722 Q723, 724, 904	2SA733A(P, K)
Q701 ~ 706, 725, 731, 732	AA1F4M or UN4212
Q905	2SD882 (Q, P)
Q903	2SB772 (Q, P)
Q907	2SA952(L, K)
Q906	2SC2001(L, K)
D901, 902, 903, 904 D908, 909	1SR35-100A

	POWER TRANS.	POWER CORD
A	VTP52Z5-011F	QMP2560-200
B	VTP52Z5-011FBS	QMP9017-008BS
C	VTP52A5-011F	QMP1200-200
E	VTP52Z5-011F	QMP3900-200
G	VTP52Z5-011F	QMP3900-200
J	VTP52A5-011F	QMP1200-200
U	VTP52G5-011F	QMP7380-200

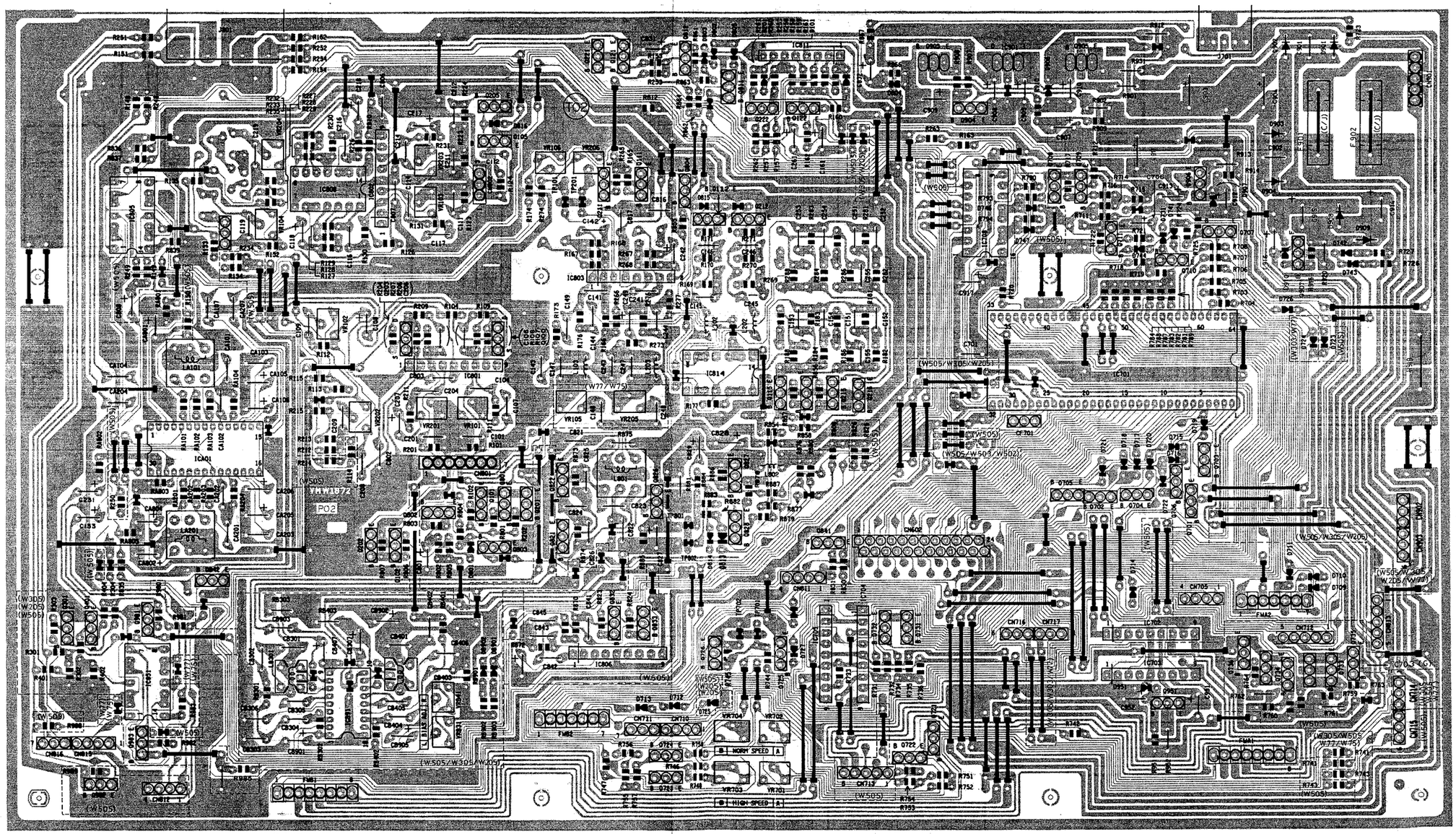
PB signal line
+B line
—B line

6 Location of Main Board Parts and Parts List

1 2 3 4 5 6 7 8 9 10

A B C D E F G

■ Main Board Parts



	U. Version
A-10 CN901	×

Fig. 6-1

⚠	REF.	PARTS NO.	PARTS NAME
⚠	Q905	2SD882(Q,P)	TRANSISTOR
	Q906	2SC2001(L,K)	TRANSISTOR
	Q907	2SA952(L,K)	TRANSISTOR
	Q951	2SC2001(L,K)	TRANSISTOR
	Q981	AA1F4M	TRANSISTOR
	Q983	AA1F4M	TRANSISTOR
	RA101	QRD161J-222	CARBON RESISTOR
	RA102	QRD161J-562	CARBON RESISTOR
	RA103	QRD161J-222	CARBON RESISTOR
	RA104	QRD161J-561	CARBON RESISTOR
	RA201	QRD161J-222	CARBON RESISTOR
	RA202	QRD161J-562	CARBON RESISTOR
	RA203	QRD161J-222	CARBON RESISTOR
	RA204	QRD161J-561	CARBON RESISTOR
	RA801	QRD161J-100	CARBON RESISTOR
	RA802	QRD161J-100	CARBON RESISTOR
	RA803	QRD161J-183	CARBON RESISTOR
	RA805	QRD161J-153	CARBON RESISTOR
	RB301	QRD161J-274	CARBON RESISTOR
	RB302	QRD161J-333	CARBON RESISTOR
⚠	RB303	QRD14CJ-100SX	UNF.C.RESISTOR
	RB401	QRD161J-274	CARBON RESISTOR
	RB402	QRD161J-333	CARBON RESISTOR
⚠	RB403	QRD14CJ-100SX	UNF.C.RESISTOR
	RB901	QRD161J-103	CARBON RESISTOR
	RB902	QRD161J-392	CARBON RESISTOR
	RB903	QRD161J-392	CARBON RESISTOR
	R101	QRD161J-104	CARBON RESISTOR
	R102	QRD161J-182	CARBON RESISTOR
	R104	QRD161J-105	CARBON RESISTOR
	R106	QRD161J-394	CARBON RESISTOR
	R107	QRD161J-512	CARBON RESISTOR
	R109	QRD161J-682	CARBON RESISTOR
	R111	QRD161J-180	CARBON RESISTOR
	R112	QRD161J-223	CARBON RESISTOR
	R113	QRD161J-103	CARBON RESISTOR
	R115	QRD161J-123	CARBON RESISTOR
	R123	QRD161J-104	CARBON RESISTOR
	R124	QRD161J-105	CARBON RESISTOR
	R126	QRD161J-394	CARBON RESISTOR
	R127	QRD161J-332	CARBON RESISTOR
	R128	QRD161J-222	CARBON RESISTOR
	R129	QRD161J-392	CARBON RESISTOR
	R130	QRD161J-332	CARBON RESISTOR
	R131	QRD161J-180	CARBON RESISTOR
	R132	QRD161J-223	CARBON RESISTOR
	R133	QRD161J-103	CARBON RESISTOR
	R135	QRD161J-123	CARBON RESISTOR
	R148	QRD161J-123	CARBON RESISTOR
	R151	QRD161J-473	CARBON RESISTOR
	R152	QRD161J-222	CARBON RESISTOR
	R153	QRD161J-222	CARBON RESISTOR
	R154	QRD161J-332	CARBON RESISTOR
	R157	QRD161J-272	CARBON RESISTOR
	R158	QRD161J-103	CARBON RESISTOR
	R159	QRD161J-273	CARBON RESISTOR
	R160	QRD161J-683	CARBON RESISTOR
	R161	QRD161J-472	CARBON RESISTOR
	R162	QRD161J-220	CARBON RESISTOR
	R163	QRD161J-102	CARBON RESISTOR
	R165	QRD161J-332	CARBON RESISTOR
	R166	QRD161J-102	CARBON RESISTOR
	R167	QRD161J-153	CARBON RESISTOR
	R168	QRD161J-472	CARBON RESISTOR
	R169	QRD161J-221	CARBON RESISTOR
	R170	QRD161J-471	CARBON RESISTOR
	R171	QRD161J-224	CARBON RESISTOR
	R173	QRD161J-123	CARBON RESISTOR
	R174	QRD161J-472	CARBON RESISTOR
	R176	QRD161J-103	CARBON RESISTOR

⚠	REF.	PARTS NO.	PARTS NAME
	R177	QRD161J-105	CARBON RESISTOR
	R181	QRD161J-152	CARBON RESISTOR
	R182	QRD161J-681	CARBON RESISTOR
	R183	QRD161J-472	CARBON RESISTOR
	R184	QRD161J-152	CARBON RESISTOR
	R186	QRD161J-122	CARBON RESISTOR
	R188	QRD161J-222	CARBON RESISTOR
	R201	QRD161J-104	CARBON RESISTOR
	R202	QRD161J-182	CARBON RESISTOR
	R204	QRD161J-105	CARBON RESISTOR
	R206	QRD161J-394	CARBON RESISTOR
	R207	QRD161J-512	CARBON RESISTOR
	R209	QRD161J-682	CARBON RESISTOR
	R211	QRD161J-180	CARBON RESISTOR
	R212	QRD161J-223	CARBON RESISTOR
	R213	QRD161J-103	CARBON RESISTOR
	R215	QRD161J-123	CARBON RESISTOR
	R223	QRD161J-104	CARBON RESISTOR
	R224	QRD161J-105	CARBON RESISTOR
	R226	QRD161J-394	CARBON RESISTOR
	R227	QRD161J-332	CARBON RESISTOR
	R228	QRD161J-222	CARBON RESISTOR
	R229	QRD161J-392	CARBON RESISTOR
	R230	QRD161J-332	CARBON RESISTOR
	R231	QRD161J-180	CARBON RESISTOR
	R232	QRD161J-223	CARBON RESISTOR
	R233	QRD161J-103	CARBON RESISTOR
	R235	QRD161J-123	CARBON RESISTOR
	R248	QRD161J-123	CARBON RESISTOR
	R251	QRD161J-473	CARBON RESISTOR
	R252	QRD161J-222	CARBON RESISTOR
	R253	QRD161J-222	CARBON RESISTOR
	R254	QRD161J-332	CARBON RESISTOR
	R257	QRD161J-272	CARBON RESISTOR
	R258	QRD161J-103	CARBON RESISTOR
	R259	QRD161J-273	CARBON RESISTOR
	R260	QRD161J-683	CARBON RESISTOR
	R261	QRD161J-472	CARBON RESISTOR
	R262	QRD161J-220	CARBON RESISTOR
	R263	QRD161J-102	CARBON RESISTOR
	R265	QRD161J-332	CARBON RESISTOR
	R266	QRD161J-102	CARBON RESISTOR
	R267	QRD161J-153	CARBON RESISTOR
	R268	QRD161J-472	CARBON RESISTOR
	R269	QRD161J-221	CARBON RESISTOR
	R270	QRD161J-471	CARBON RESISTOR
	R271	QRD161J-224	CARBON RESISTOR
	R273	QRD161J-123	CARBON RESISTOR
	R274	QRD161J-472	CARBON RESISTOR
	R276	QRD161J-103	CARBON RESISTOR
	R277	QRD161J-105	CARBON RESISTOR
	R281	QRD161J-152	CARBON RESISTOR
	R282	QRD161J-681	CARBON RESISTOR
	R283	QRD161J-472	CARBON RESISTOR
	R284	QRD161J-152	CARBON RESISTOR
	R286	QRD161J-122	CARBON RESISTOR
	R288	QRD161J-222	CARBON RESISTOR
	R301	QRD161J-683	CARBON RESISTOR
	R302	QRD161J-393	CARBON RESISTOR
	R303	QRD161J-473	CARBON RESISTOR
	R304	QRD161J-332	CARBON RESISTOR
	R401	QRD161J-683	CARBON RESISTOR
	R402	QRD161J-393	CARBON RESISTOR
	R403	QRD161J-473	CARBON RESISTOR
	R404	QRD161J-332	CARBON RESISTOR
	R703	QRD161J-101	CARBON RESISTOR
	R704	QRD161J-101	CARBON RESISTOR
	R705	QRD161J-101	CARBON RESISTOR
	R706	QRD161J-101	CARBON RESISTOR
	R707	QRD161J-101	CARBON RESISTOR

⚠	REF.	PARTS NO.	PARTS NAME
	R708	QRD161J-101	CARBON RESISTOR
	R711	QRD161J-471	CARBON RESISTOR
	R712	QRD161J-103	CARBON RESISTOR
	R714	QRD161J-222	CARBON RESISTOR
	R715	QRD161J-102	CARBON RESISTOR
	R716	QRD161J-102	CARBON RESISTOR
	R717	QRD161J-471	CARBON RESISTOR
	R718	QRD161J-223	CARBON RESISTOR
	R719	QRD161J-103	CARBON RESISTOR
	R720	QRD161J-223	CARBON RESISTOR
	R721	QRD161J-473	CARBON RESISTOR
	R722	QRD161J-223	CARBON RESISTOR
	R723	QRD161J-221	CARBON RESISTOR
	R724	QRD161J-223	CARBON RESISTOR
	R725	QRD161J-104	CARBON RESISTOR
	R726	QRD161J-103	CARBON RESISTOR
	R727	QRD161J-103	CARBON RESISTOR
	R731	QRD161J-471	CARBON RESISTOR
	R732	QRD161J-272	CARBON RESISTOR
	R733	QRD161J-102	CARBON RESISTOR
	R734	QRD161J-471	CARBON RESISTOR
	R735	QRD161J-272	CARBON RESISTOR
	R736	QRD161J-102	CARBON RESISTOR
	R741	QRD161J-153	CARBON RESISTOR
	R742	QRD161J-563	CARBON RESISTOR
	R743	QRD161J-273	CARBON RESISTOR
	R744	QRD161J-103	CARBON RESISTOR
	R745	QRD161J-103	CARBON RESISTOR
	R746	QRD161J-153	CARBON RESISTOR
	R747	QRD161J-563	CARBON RESISTOR
	R748	QRD161J-273	CARBON RESISTOR
	R751	QRD161J-224	CARBON RESISTOR
	R752	QRD161J-224	CARBON RESISTOR
	R753	QRD161J-224	CARBON RESISTOR
	R754	QRD161J-224	CARBON RESISTOR
	R755	QRD161J-224	CARBON RESISTOR
	R756	QRD161J-224	CARBON RESISTOR
	R757	QRD161J-224	CARBON RESISTOR
	R758	QRD161J-224	CARBON RESISTOR
	R781	QRD161J-682	CARBON RESISTOR
	R782	QRD161J-682	CARBON RESISTOR
	R783	QRD161J-682	CARBON RESISTOR
	R784	QRD161J-682	CARBON RESISTOR
	R787	QRD161J-223	CARBON RESISTOR
	R788	QRD161J-223	CARBON RESISTOR
	R789	QRD161J-221	CARBON RESISTOR
	R790	QRD161J-223	CARBON RESISTOR
	R801	QRD161J-471	CARBON RESISTOR
	R802	QRD161J-391	CARBON RESISTOR
	R803	QRD161J-332	CARBON RESISTOR
	R804	QRD161J-472	CARBON RESISTOR
	R805	QRD161J-222	CARBON RESISTOR
	R806	QRD161J-332	CARBON RESISTOR
	R807	QRD161J-222	CARBON RESISTOR
	R808	QRD161J-223	CARBON RESISTOR
	R810	QRD161J-102	CARBON RESISTOR
	R812	QRD161J-223	CARBON RESISTOR
	R830	QRD161J-103	CARBON RESISTOR
	R831	QRD161J-103	CARBON RESISTOR
	R835	QRD161J-223	CARBON RESISTOR
	R836	QRD161J-223	CARBON RESISTOR
	R837	QRD161J-223	CARBON RESISTOR
	R839	QRD161J-102	CARBON RESISTOR
	R854	QRD161J-102	CARBON RESISTOR
	R855	QRD161J-472	CARBON RESISTOR
	R856	QRD161J-103	CARBON RESISTOR
	R857	QRD161J-223	CARBON RESISTOR
	R858	QRD161J-223	CARBON RESISTOR
	R861	QRD161J-223	CARBON RESISTOR
	R862	QRD161J-223	CARBON RESISTOR

⚠	REF.	PARTS NO.	PARTS NAME
	R863	QRD161J-223	CARBON RESISTOR
	R864	QRD161J-221	CARBON RESISTOR
	R866	QRD161J-223	CARBON RESISTOR
	R867	QRD161J-102	CARBON RESISTOR
	R873	QRD161J-823	CARBON RESISTOR
	R874	QRD161J-823	CARBON RESISTOR
⚠	R875	QRD14CJ-6R8SX	UNF.C.RES.I.M
	R876	QRD161J-182	CARBON RESISTOR
	R877	QRD161J-223	CARBON RESISTOR
	R878	QRD161J-223	CARBON RESISTOR
	R879	QRD161J-473	CARBON RESISTOR
	R880	QRD161J-182	CARBON RESISTOR
⚠	R881	QRZ0077-100X	F.RESISTOR
	R882	QRD161J-102	CARBON RESISTOR
	R883	QRD161J-102	CARBON RESISTOR
	R884	QRD161J-102	CARBON RESISTOR
	R885	QRD161J-103	CARBON RESISTOR
	R886	QRD161J-102	CARBON RESISTOR
	R887	QRD161J-562	CARBON RESISTOR
⚠	R901	QRD14CJ-4R7SX	CARBON RESISTOR
⚠	R902	QRZ0077-4R7X	F. RESISTOR
	R907	QRD161J-332	CARBON RESISTOR
	R908	QRD161J-272	CARBON RESISTOR
⚠	R909	QRD161J-471	CARBON RESISTOR
	R910	QRD161J-471	CARBON RESISTOR
⚠	R912	QRD14CJ-471SX	CARBON RESISTOR
⚠	R913	QRZ0077-4R7X	F. RESISTOR
	R914	QRD161J-681	CARBON RESISTOR
	R916	QRD161J-681	CARBON RESISTOR
⚠	R919	QRG019J-150A	OMF RESISTOR
⚠	R920	QRZ0077-4R7X	F. RESISTOR
	R931	QRH144J-4R7	FUSI RESISTOR
	R951	QRD161J-471	CARBON RESISTOR
	R952	QRD14CJ-4R7SX	CARBON RESISTOR
	R980	QRD161J-103	CARBON RESISTOR
	R981	QRD161J-223	CARBON RESISTOR
	R982	QRD161J-103	CARBON RESISTOR
	R983	QRD161J-102	CARBON RESISTOR
	R985	QRD161J-222	CARBON RESISTOR
	VRB31	QVZ3523-203AZ	V RESISTOR
	VRB41	QVZ3523-203AZ	V RESISTOR
	VR101	QVZ3523-101AZ	V RESISTOR
	VR102	QVZ3523-203AZ	V RESISTOR
	VR103	QVZ3523-101AZ	V RESISTOR
	VR104	QVZ3523-203AZ	V RESISTOR
	VR106	QVZ3523-203AZ	V RESISTOR
	VR201	QVZ3523-101AZ	V RESISTOR
	VR202	QVZ3523-203AZ	V RESISTOR
	VR203	QVZ3523-101AZ	V RESISTOR
	VR204	QVZ3523-203AZ	V RESISTOR
	VR206	QVZ3523-203AZ	V RESISTOR
	VR701	QVPE612-203ZM	V.RESISTOR
	VR702	QVPE612-103ZM	V RESISTOR
	VR703	QVPE612-203ZM	V.RESISTOR
	VR704	QVPE612-103ZM	V RESISTOR

■ Other Board

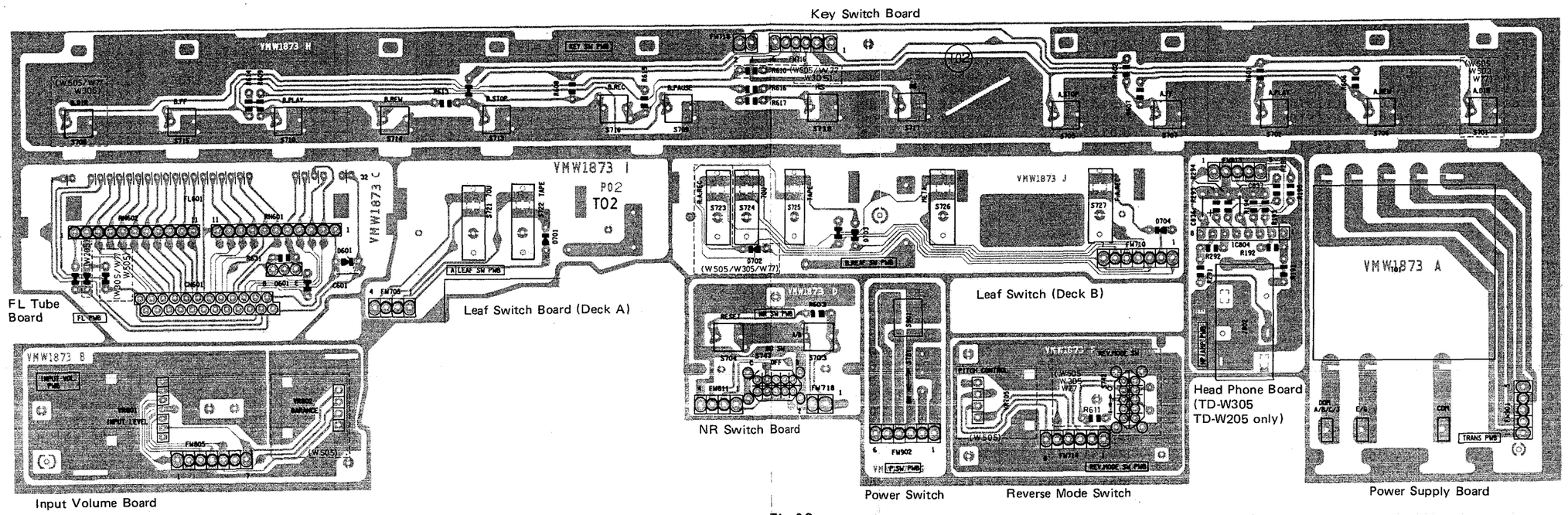


Fig. 6-2

• Other Board Parts List

⚠	REF.	PARTS NO.	PARTS NAME
	CN601	VMC0161-R24	CONNECTOR
	C601	QETC1CM-107ZN	E.CAPACITOR
	C836	QETC1AM-107ZN	E CAPACITOR
	C837	QETC1AM-107ZN	E CAPACITOR
	D601	MTZ7.5CT	Z DIODE
	D701	1SS133	DIODE
	D702	1SS133	DIODE
	D703	1SS133	DIODE
	D704	1SS133	DIODE
	FL601	BG-901G	FL TUBE
	IC804	BA15218N	IC
	J802	QMS6022-V01	JACK
	Q601	2SC945L(P,K)	TRANSISTOR
	RN601	QRB105J-223	R.NETWORK
	RN602	QRB105J-223	R.NETWORK
	R191	QRD161J-151	CARBON RESISTOR
	R192	QRD161J-184	CARBON RESISTOR
	R193	QRD161J-103	CARBON RESISTOR
	R194	QRD161J-103	CARBON RESISTOR
	R195	QRD161J-473	CARBON RESISTOR
	R291	QRD161J-151	CARBON RESISTOR
	R292	QRD161J-184	CARBON RESISTOR
	R293	QRD161J-103	CARBON RESISTOR
	R294	QRD161J-103	CARBON RESISTOR
	R295	QRD161J-473	CARBON RESISTOR
	R601	QRD161J-222	CARBON RESISTOR
	R602	QRD161J-182	CARBON RESISTOR
	R603	QRD161J-272	CARBON RESISTOR
	R606	QRD161J-102	CARBON RESISTOR
	R607	QRD161J-122	CARBON RESISTOR

⚠	REF.	PARTS NO.	PARTS NAME
	R608	QRD161J-102	CARBON RESISTOR
	R609	QRD161J-122	CARBON RESISTOR
	R610	QRD161J-183	CARBON RESISTOR
	R611	QRD161J-273	CARBON RESISTOR
	R613	QRD161J-102	CARBON RESISTOR
	R614	QRD161J-122	CARBON RESISTOR
	R615	QRD161J-182	CARBON RESISTOR
	R616	QRD161J-272	CARBON RESISTOR
	R617	QRD161J-472	CARBON RESISTOR
	R631	QRD161J-223	CARBON RESISTOR
	S701	QSQ4H11-V01Z	TACT SWITCH
	S702	QSQ4H11-V01Z	TACT SWITCH
	S703	QSQ4H11-V01Z	TACT SWITCH
	S704	QSQ4H11-V01Z	TACT SWITCH
	S705	QSQ4H11-V01Z	TACT SWITCH
	S706	QSQ4H11-V01Z	TACT SWITCH
	S707	QSQ4H11-V01Z	TACT SWITCH
	S708	QSQ4H11-V01Z	TACT SWITCH
	S709	QSQ4H11-V01Z	TACT SWITCH
	S710	QSQ4H11-V01Z	TACT SWITCH
	S713	QSQ4H11-V01Z	TACT SWITCH
	S714	QSQ4H11-V01Z	TACT SWITCH
	S715	QSQ4H11-V01Z	TACT SWITCH
	S716	QSQ4H11-V01Z	TACT SWITCH
	S717	QSQ4H11-V01Z	TACT SWITCH
	S718	QSQ4H11-V01Z	TACT SWITCH
	S721	VSH1140-003	LEAF SWITCH
	S722	QSS7A23-V05	SLIDE SWITCH
	S723	QSS7A23-V05	SLIDE SWITCH
	S724	VSH1140-003	LEAF SWITCH

⚠	REF.	PARTS NO.	PARTS NAME
	S725	VSH1140-003	LEAF SWITCH
	S726	VSH1140-003	LEAF SWITCH
	S727	VSH1140-003	LEAF SWITCH
	S742	QSS7A23-V05	SLIDE SWITCH
	S743	QSS7A23-V05	SLIDE SWITCH
	S901	QST8101-V08	PUSH SW
	VR801	QVDB22A-V02	V.RESISTOR

• Power Supply Board Parts List (U version)

⚠	REF.	PARTS NO.	PARTS NAME
	CN905	VMC0221-003	CONNECTOR
	CN906	VMC0221-003	CONNECTOR
	CN907	VMC0221-003	CONNECTOR
	CN908	VMC0221-003	CONNECTOR
		QSS2325-112	SLID SWITCH
	CN901	VMC0107-005	CONNECTOR
		VMZ0043-001S	FUSE C LIP

■ Power Supply Board (U version)

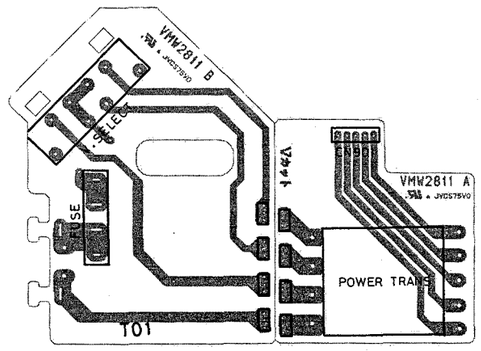


Fig. 6-3

■ Exploded View of Enclosure

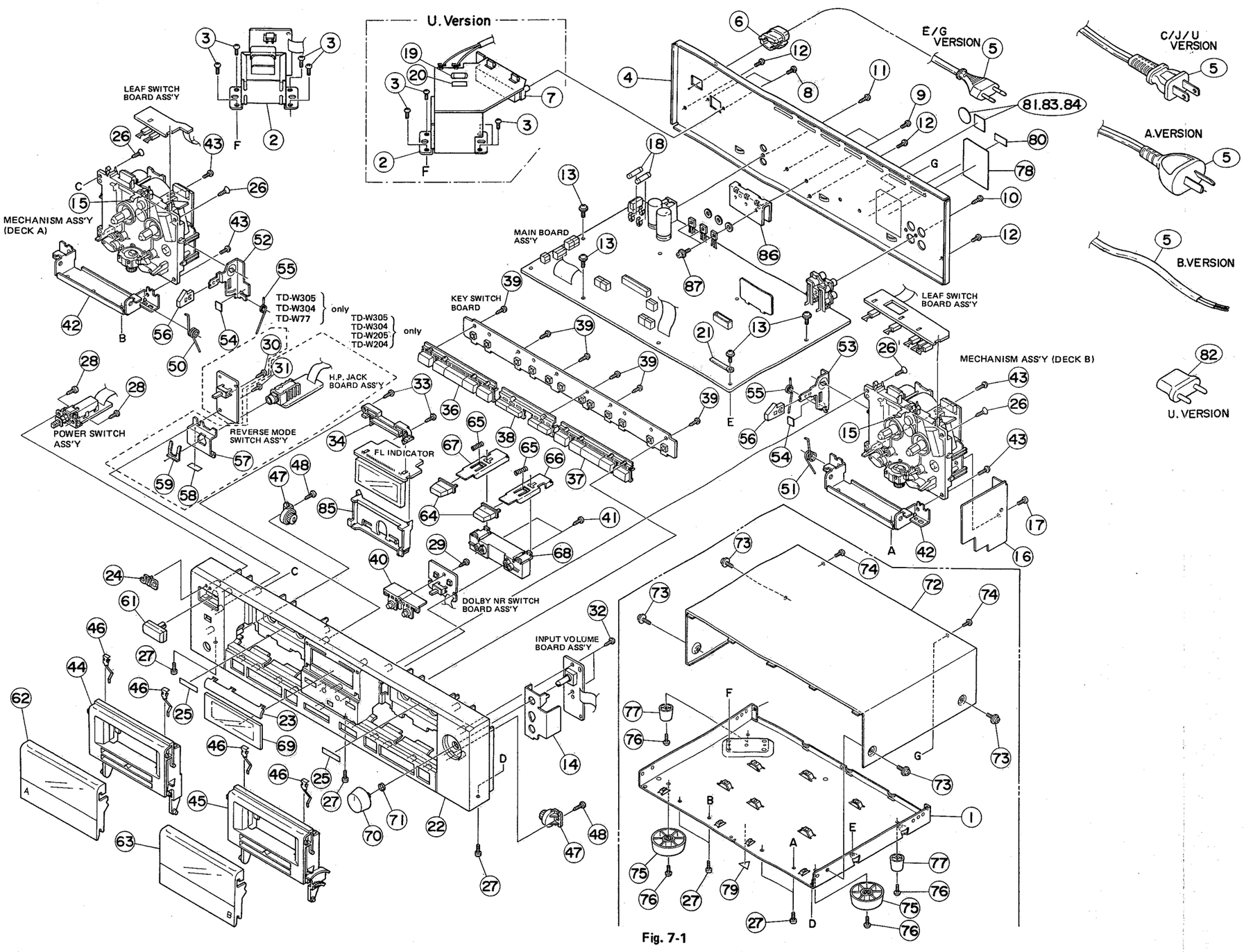


Fig. 7-1

8 Exploded View of Mechanism Component Parts

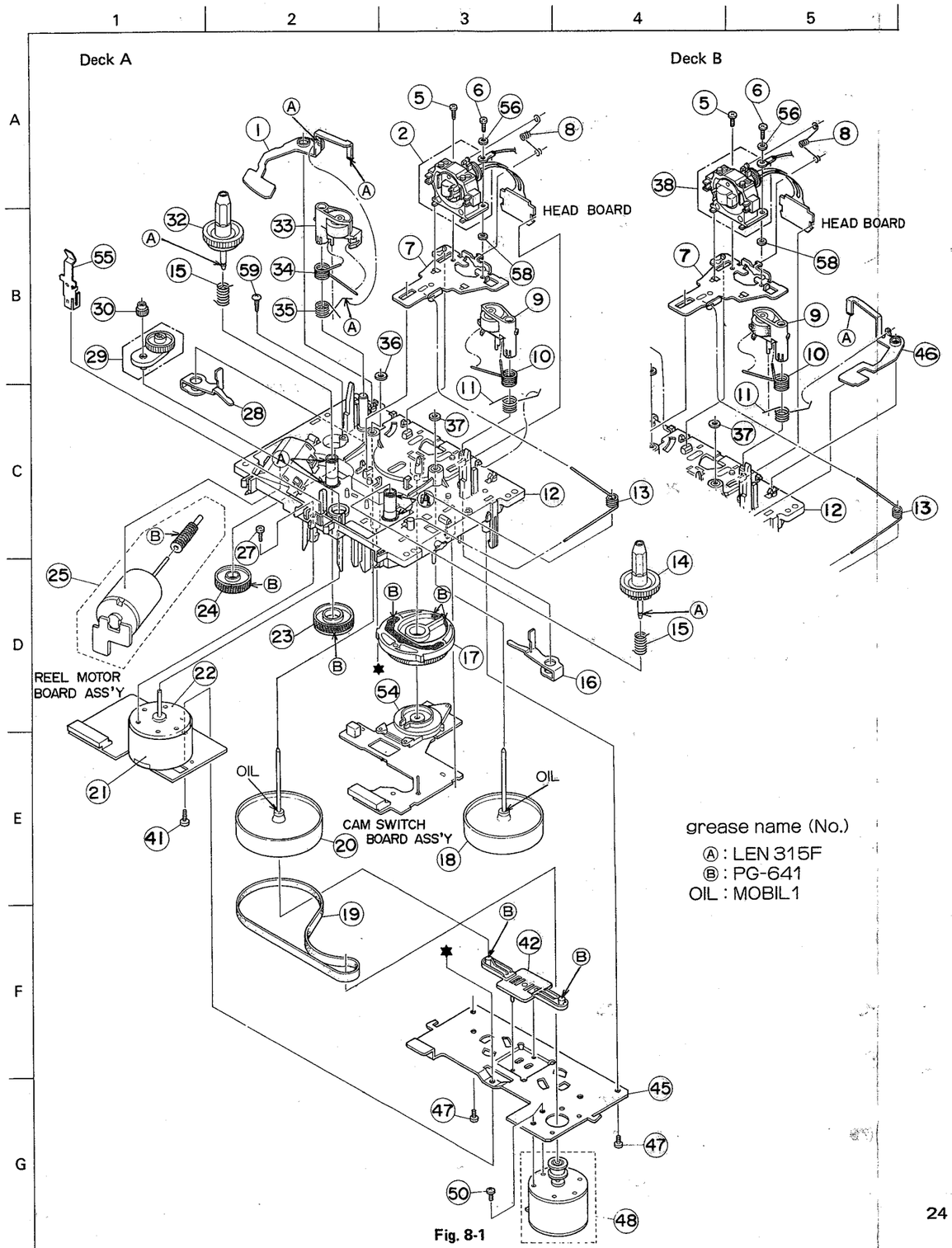


Fig. 8-1

- **Mechanism Component Parts List**

Deck (A)

BLOCK NO. [ ]

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1	VKL6954-005	EJECT SAFETY(R)		1
	2	VDG5149-002MA1	HEAD MOUNT ASSY	DECK A	1
	5	SDST2004Z	SCREW	HEAD M.BASE	1
	6	SDST2005Z	SCREW		1
	7	VKL6942-00C	HEAD BASE AS'Y		1
	8	VKW4914-007	HEAD SPRING	FOR HEAD GIAR	1
	9	VKP4221-00A	PINCH R.(L) ASY		1
	10	VKW3006-213	TORSION SPRING	FOR PINCH ROLLER	1
	11	VKW4933-003	TORSION SPRING	FOR RETURN (L)	1
	13	VKW4930-002	RETURN SPRING		1
	14	VKS3480-003	REEL		1
	15	VKW4928-002	B.T. SPRING		1
		VKW4928-002	B.T. SPRING		1
	17	VKS2209-004	CONTROL CAM		1
	18	VKF3182-00C	FLYWHEEL(L)ASSY		1
	19	VKB3001-049	BELT		1
	20	VKF3180-00C	FLYWHEEL(R)ASSY		1
	21	FE-ZMS514	SHIELD CORE		1
	22	MMN-6F4RA88	D.C.MOTOR	FOR REEL MOTOR	1
	23	VKS5331-002	ACT. GEAR (6)		1
	24	VKS5330-003	ACT. GEAR (5)		1
	25	MXN13FB12F-SA2	DC MOTOR ASS'Y	FOR ACTUATOR	1
	26	VKL6940-002	PINCH LEVER (L)		1
	27	SDSP2605Z	SCREW	FOR REEL MOTOR	1
	28	VKL6939-002	PINCH LEVER (R)		1
	29	VKS5325-00D	FR ARM ASS'Y		1
	30	VKS5328-002	REEL MOT. GEAR		1
	32	VKS5321-00C	T-UP REEL ASS'Y		1
	33	VKP4219-00A	PINCH R.(R) ASY		1
	34	VKW3006-212	TORSION SPRING	FOR PINCH ROLLER	1
	35	VKW4932-003	TORSION SPRING	FOR RETURN (R)	1
	36	VKZ4035-009	WASHER		1
	37	Q03093-527	WASHER		1
	38	VDG5149-002MB1	HEAD MOUNT ASS'Y	DECK B	1
	41	SDSF2608Z	SCREW		1
	42	VKS5327-003	THRUST PLATE		2
	45	VKM3416-004	FM BKT		1
	46	VKL6943-004	EJECT SAFETY	DECK B	1
	47	SDSF2605Z	SCREW		2
	48	MMI6H2LWK-SA5	MOTOR ASS'Y	FOR CAPSTAN	1
	50	SPSP2603Z	SCREW	FOR MOTOR	2
	54	VKS3495-00A	CAM SWITCH UNIT		1
	55	VKY4628-001	PACK SPRING		1
	56	WNS2000N	WASHER		1
	58	WFM266013	WASHER		1
	59	GBSF3008Z	TAPPING SCREW	DECK A ONLY	1

No. VA-00-5157

JVC Manual Change Information

SUBJECT: CORRECTION OF MISPRINT DATE: SEP. 1, '93

■ The following items have been changed. Please note these in your service manual.

Model & Manual No.	Location	Reference Information	Affected Serial No.
TD-W205TN/W204BK 4325-2 A/B/C/E/G/J/U			

Please correct it as follows.

Page 10

Ref.No.	Parts Name	Parts No.	
		Wrong	Correct
9	P. R. ARM(L)	VKP3118-001	VKP4221-00C

ATTACHMENT

( ) NONE ( ) EXPLODED VIEW ( ) ADJUSTMENT PROCEDURE

( ) SCHEMATIC DIAGRAM ( ) COMPONENT/PCB LAYOUT ( )

VICTOR COMPANY OF JAPAN, LIMITED

AUDIO PRODUCTS DIVISION, QUALITY ASSURANCE DEPARTMENT 1513[0][0]

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